
SAFETY 2026

Products and Solutions

Valid from April 1, 2026



Making Safety Measurable – Assuming Responsibility

Safety is not a state. Safety is a promise.

A promise to people, companies, and society that electrical energy remains manageable – measured with precision, tested according to standards, and monitored reliably.

As one of the leading international providers of electrical measuring and test technology, GMC-Instruments GmbH and its brands are driven by a clear mission: We make safety and quality measurable. Our meters, software solutions, and services support specialists worldwide to verify compliance with standards, minimize risks, and boost trust in electrical systems – systems that people rely on day in, day out.

Electrical safety begins with the standards-compliant testing of systems and instruments. It ranges from monitoring power quality, through the analysis of complex energy flows, to the intelligent control of demanding infrastructure. From initial commissioning, through recurring testing, to energy management, our solutions accompany the entire life cycle of electrical systems – reliably, efficiently, and user-oriented.

This brochure illustrates the whole range of our competencies: from electrical test and safety, medical technology, power quality and energy management, through to calibration, service, and further training. Every solution follows a clear aspiration: Not just promising safety, but also doing so in a verifiably objective way.

After all, wherever electrical energy is used, responsibility ensues.
We provide the tools to assume this responsibility.

Your Markus Belmer – CCO of GMC-Instruments Group



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Safety 2026

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Test Technology



Electrical test technology is the foundation for the safe operation of installations, systems, devices, and machines—from initial commissioning to regular periodic testing. It ensures that electrical protective measures function reliably, that people and property remain protected, and that all legal and regulatory requirements are met.

The test technology portfolio covers all areas of modern electrical engineering. It includes test instruments for electrical installations and systems, electrical devices and machines, and innovative solutions for renewable energy. This includes test technology for photovoltaic systems, e-mobility, and battery storage. With precise measuring technology, intuitive operation, and efficient documentation, the test instruments ensure that test procedures are safe, traceable, and productive.

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SECUTEST LEMONGREEN

Standard test instrument set for testing the electrical safety of devices, in particular for the fulfillment of DGUV regulation 3 and German medical device directive MPBetreibV, including IZYTRONIQ data processing software

- HTML report generation to USB memory
- 10 A test current for R-PE measurement
- Convenient database functions for managing test objects

Art.-No. **M708E**



SECUTEST ST PRO

Test instrument with standards-compliant test sequences for testing the electrical safety of devices after repair and for periodic testing including IZYTRONIQ data processing software

- Preconfigured and user programmable test sequences for testing electric devices quickly
- Suitable for use by instructed persons
- Extensive data management and storage concept for automated test sequences and individual measurements – for up to 50,000 data records
- providing HTML test report on USB memory

Art.-No. **M707B**



SECUTEST ST PRO BT COMFORT

Test instrument with standards-compliant test sequences for testing the electrical safety of devices after repair and for periodic testing (DGUV regulation 3, German medical device directive MPBetreibV), optimized for IZYTRONIQ

- Preconfigured and user programmable test sequences for testing electric devices quickly
- Suitable for use by instructed persons
- Extensive data management and storage concept for automated test sequences and individual measurements – for up to 50,000 data records
- providing HTML test report on USB memory

Art.-No. **M707C**



SECUTEST ST PRIME 25 A

Testing device for testing the electrical safety of appliances during the manufacturing process and after repair, including DC high-voltage testing.

- Flash test with up to 6 kV DC
- Protective conductor test using 200 mA AC/DC or 25 A AC
- Automated operator guidance High-resolution colour 4.3" TFT display
- USB interface for bidirectional data transfer
- Possibility of direct control via REMOTE interface
- Comprehensive data management and storage concept for automatic test sequences and individual measurements for up to 50,000 data records

Art.-No. **M707H**



STARTERPAKET SECUTEST ST BASE

Test instrument set for testing the electrical safety of devices, in particular for the fulfillment of DGUV regulation 3 and German medical device directive MPBetreibV, including IZYTRONIQ data processing software

- Quick testing thanks to short, optimized test cycles
- Predefined test sequences in accordance with the standards
- providing HTML test report on USB memory

Art.-No. **M708A**



PROFIPAKET SECUTEST ST PRO

Standard test instrument set for testing the electrical safety of devices, in particular for the fulfillment of DGUV regulation 3 and German medical device directive MPBetreibV, including IZYTRONIQ data processing software

- providing HTML test report on USB memory

Art.-No. **M708B**



COMFORTPAKET SECUTEST ST PRO

Standard test instrument set for testing the electrical safety of devices, in particular for the fulfillment of DGUV regulation 3 and German medical device directive MPBetreibV, including IZYTRONIQ data processing software

- providing HTML test report on USB memory

Art.-No. **M708C**



3P/SCHWEISS PAKET SECUTEST ST PRO

Standard test instrument set for testing the electrical safety of devices, in particular for the fulfillment of DGUV regulation 3 and German medical device directive MPBetreibV, including IZYTRONIQ data processing software

- HTML report generation to USB memory

Art.-No. **M708D**



EL1

Adapter for Testing Single-Phase Extension Cables

Art.-No. **Z723A**



VL2 E

Adapter for Testing Protective Conductor and Insulation Resistance of Appliances and Extension Cables

Art.-No. **Z745W**



AT16-DI

16 A 3-Phase Current Adapter

Art.-No. **Z750A**



AT32-DI

32 A 3-Phase Current Adapter

Art.-No. **Z750B**



AT3-III-E

Adapter for Testing 3-Phase Devices and Extension Cables in Combination with SECUTEST Series Safety Testers

Art.-No. **Z745S**



Apollo 600+

Test instrument for Testing per EN50678 / EN 50699 (DIN VDE 0701 / DIN VDE 0702)

- Color graphic display
- Integrated rechargeable battery (for passive tests and backup)
- Integrated camera for photo documentation
- Customizable sequences for device testing (up to 100 sequences can be stored)
- Bidirectional data transmission by means of PATGuard3 Elite
- 2 probe tests for permanently installed devices are possible (RPE and RISO)
- Integrated data storage for up to 50,000 objects

Art.-No. **M711B**



METRATESTER 5+

Test Instrument for Testing per DIN VDE 0701-0702

Art.-No. **M700D**



SECULIFE ST BASE

Test instrument with standards-compliant test sequences for testing the electrical safety of devices after repair and for periodic testing (DGUV regulation 3, German medical devices operator ordinance MPBetreibV)

- Preconfigured and user programmable test sequences for testing electric devices quickly
- Extensive data management and storage concept for automated test sequences and individual measurements - for up to 50,000 data records
- High-resolution, brilliant 4.3" TFT color display
- User-created test sequences with the help of IZYTRONIQ

Art.-No. **M694A**



SECULIFE ST BASE25

Test device with antimicrobial effectiveness, 25 A test current and standard-compliant test sequences for testing the electrical safety of medical devices (DGVV regulation 3, MPBetreibV)

- Antimicrobial effectiveness of front and housing of the tester against bacteria, viruses and fungi
- Pre-configured and self-programmable test sequences for fast testing of electrical devices and medical devices
- Comprehensive data management and storage concept
- Automatic test sequence and individual measurements for up to 50,000 data records
- High resolution and brilliant 4,3" TFT colour display
- Create your own test sequences with the help of „SequenceDesigner“ (free download in myGMC)

Art.-No.

M694B



SECULIFE ST PRO

Test instrument with antimicrobial properties and standards-compliant test sequences for testing the electrical safety of medical products (DGVV regulation 3, German medical devices operator ordinance MPBetreibV)

- Antimicrobial effectiveness of front and housing of the tester against bacteria, viruses and fungi
- 4mm application part sockets
- Software IZYTRONIQ- Business Starter enclosed
- IEC / DIN EN 60601 and IEC / DIN EN 62353 Sequences
- Pre-configured and self-programmable test sequences for fast testing of electrical devices
- Fast access to measurement and test functions via the double rotary switch, direct selection keys and soft keys
- Unique multiple measurement and thus comfortable acquisition of several measuring points
- Comprehensive data management and storage concept for automatic test sequence and individual measurements for up to 50,000 data records
- High resolution and brilliant 4,3" TFT colour display
- Compact, impact-resistant housing with integrated rubber protection Extensive adjustment options for international use (language, keyboard, character set, date, time)
- database extension

Art.-No.

M694C



SECULIFE ST PRIME

Test Instrument with Antimicrobial Properties for Standards-Compliant Testing of the Electrical Safety of Electrical Medical Equipment, Including High-Voltage Test with up to 6 kV DC

- High-voltage test with up to 6 kV DC
- Test instrument surfaces feature antimicrobial properties
- Automated user guidance
- Protective conductor test, 200 mA AC/DC and 25 A AC
- 10 configurable terminals (4mm) for applied parts with switching functionality
- Automatic test sequences according to IEC 61010
- High-resolution, 4.3" color TFT display
- Touchscreen
- USB ports for data input and data transfer
- Remote control possible via PC (IZYTRONIQ)
- Integrated data storage for up to 50,000 objects

Art.-No.

M694H



PROFiTEST MF XTRA - LEMONGREEN

Measuring and Test Instrument for Testing the Effectiveness of Protective Measures at Stationary Electrical Installations After Installation, Repair or Expansion, and for Periodic Testing (DGUV regulation 3)

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Measuring category: 600 V CAT III / 300 V CAT IV
- 4-wire measuring method – no compensation of the measurement cables is required
- Earth loop resistance measurement RE LOOP
- Selective earthing resistance RE

Art.-No.

M535T



PROFiTEST MF TECH

Measuring and Test Instrument for Testing the Effectiveness of Protective Measures at Stationary Electrical Installations After Installation, Repair or Expansion, and for Periodic Testing (DGUV regulation 3)

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M535K



PROFiTEST MF XTRA

Measuring and Test Instrument for Testing the Effectiveness of Protective Measures at Stationary Electrical Installations After Installation, Repair or Expansion, and for Periodic Testing (DGUV regulation 3)

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Measuring category: 600 V CAT III / 300 V CAT IV
- 4-wire measuring method – no compensation of the measurement cables is required
- RELOOP earth loop resistance measurement
- RE selective earthing resistance

Art.-No.

M535H



PROFiTEST MF TECH Starter-Set

PROFiTEST MF TECH Starter Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems After Completion, Repair, Expansion or Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537A

PROFiTEST MF TECH Meister-Set

PROFiTEST MF TECH Master Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems After Completion, Repair, Expansion and Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537C

PROFiTEST MF TECH EVSE-Set

PROFiTEST MF TECH EVSE Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems, in Particular Electric Charging Points, After Completion, Repair, Expansion and Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537D



PROFiTEST MF XTRA Starter-Set

PROFiTEST MF XTRA Starter Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems After Completion, Repair, Expansion or Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-Sensitive Color Graphic Display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537K



PROFiTEST MF XTRA Meister-Set

PROFiTEST MF XTRA Master Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems After Completion, Repair, Expansion and Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537L



PROFiTEST MF XTRA Profi-Set

PROFiTEST MF XTRA Profi Set for Testing the Effectiveness of Protective Measures at Stationary Electrical Systems After Completion, Repair, Expansion or Periodic Testing, Especially for the Fulfillment of DGUV Regulation 3

- Context-sensitive color graphic display
- Measuring and test sequence – easy setup of the system structure / measuring and storage / report generation
- Preconfigured and user programmable test sequences for testing electric systems quickly
- Storage concept for up to 50,000 data records
- Testing of all up-to-date AC/DC sensitive RCDs, RDC-DDs and RCMBs
- User safety thanks to PE detection when using finger contact
- Forward-looking connectivity

Art.-No.

M537M



PROFITEST REMOTE

3-Phase Test Adapter for PROFITEST MTECH+ IQ and MXTRA IQ

- For use with PROFITEST MTECH+ IQ and MXTRA IQ
- Measurement of loop and line impedance Z_{L-PE} and Z_{L-N}
- Measurement of insulation resistance RINS with up to 500 V DC
- No replugging required during measurement
- No phase reversal possible during measurement
- Saves time for testing in electrical systems
- Connection to the test instrument via 3-pole PRO-SCHUKO test adapter or 4 mm safety sockets L, N and PE
- The test adapter is controlled via the connected test instrument
- Connection to the electrical system via 4 mm safety sockets L1, L2, L3, N and PE
- Data communication via RS 232 port
- No need to determine offset thanks to 4-wire measurement
- Indication of conductor connection via LED

Art.-No.

M514R



PROFITEST PRCD PRO

Adapter for Standards Compliant Testing of PRCDs by Fault Simulation

- Testing of Type S and K PRCDs in accordance with DIN EN 50678, DIN EN 50699, BGI/GUV-I 608, and manufacturer's specifications using a guided test sequence with the PROFITEST MF/PROFITEST MXTRA
- Tripping test with nominal residual current and measurement of time to trip with the PROFITEST MF/PROFITEST MXTRA
- Evaluation and documentation of the individual test steps with the PROFITEST MF/PROFITEST MXTRA

Art.-No.

M512S



METRALINE MF

Multifunctional Installation Tester

- Color graphic display
- Intuitive operation
- USB interface for updates and evaluation
- Large memory for up to 1000 measurements

Art.-No.

M520F



METRALINE ZCHECK

Loop resistance measuring instrument

- Table of common protective devices can be displayed
- Digital display, backlit color OLED display, switching between brief and detailed representation
- LED for measurement point illumination
- Patented test probe retainer
- Compact and rugged – for service calls under harsh conditions and laboratory use

Art.-No.

M507A



METRALINE RCDCHECK

RCD Tester

- Digital display, backlit color OLED display
- LED for measurement point illumination
- Patented test probe retainer
- Compact and rugged – for service calls under harsh conditions and laboratory use

Art.-No.

M507B



METRALINE ISOCHECK

Insulation measuring instrument

- Insulation resistance measurement with test voltage from 50 to 1000 V
- Voltage measurement to 600 V
- Measurement of surge protection devices with test voltage from 50 to 1000 V
- Table of common varistors can be displayed
- Digital display, backlit color OLED display
- Indication of dangerous touch voltage
- LED for measurement point illumination
- Patented test probe retainer
- Compact and rugged – for service calls under harsh conditions and laboratory use

Art.-No.

M507C



METRALINE RLO-CHECK

Digital Low-Resistance Meter per EN 61557-4

- Battery-operated low-resistance ohmmeter
- Including cable reel with 30 m cable
- Automatic polarity reversal
- Acoustic alarm
- Optical alarm
- Measurement cable compensation
- Single-key operation
- Manual calibration

Art.-No.

M630W



PE RLO-CHECK-PACKAGE

PE RLO-CHECK PACKAGE for Lighting Systems

- Battery-operated low-resistance ohmmeter
- Cable reel with 30 m cable including measurement cable compensation
- Easy-to-read digital display
- Automatic polarity reversal
- Acoustic alarm
- Optical alarm
- Single-key operation
- Manual calibration
- Extensive accessories

Art.-No.

M630V



METRAFUSE FD PRO

Fuse Detector

- Automatic sensitivity adjustment
- For cable lengths of up to several hundred meters
- Separate emitter and receiver units
- Optical and acoustic signaling

Art.-No.

M660C



PhaseCop 2

Phase Sequence Indicator

- Compliance with Equipment Standards EN 61557
- Phase Sequence Testing in 3-Phase Systems
- Testing for Phase Failure
- Large Voltage and Frequency Ranges
- Rugged Design

Art.-No.

GTM5202000R0001



METRAPHase 1

Phase Sequence Indicator

- Electronic rotary dial replaces mechanical Ferraris rotary dial for more compact design.
- LEDs in the circuit indicate the direction of rotation and line frequency with different colors.
- Additional LEDs indicate phase voltages and nominal voltage of the line in accordance with regulations.
- Instrument can be used as a 3-pole or 2-pole indicator.
- Fulfills safety regulations and offers modern, space-saving technology.

Art.-No.

M620A



METRALINE VT LED

2-Pole Voltage Tester

- RCD tripping test for 30 mA via two pushbuttons
- Convenient safety functions such as vibration and flashlight
- Highly ergonomic thanks to the specially developed housing structure with rubber pads
- One-hand operation thanks to connected test probes
- LED Display

Art.-No.

M611G



METRALINE VT LCD

2-Pole Voltage Tester with LCD Panel

- RCD tripping test for 30 mA via two pushbuttons
- Convenient safety functions such as vibration and flashlight
- Highly ergonomic thanks to the specially developed housing structure with rubber pads
- One-hand operation thanks to connected test probes
- LCD panel with background illumination

Art.-No.

M611H



METRALINE VT SENSE

Non-Contact Voltage Tester

- Non-contact voltage identification
- Rotary field indication via 4-color LED and vibration
- Indication of voltage fields by means of vibration

Art.-No.

M611K



METRALINE VC SENSE

Current-Voltage Tester with 7-Segment Display

- Inductive current measurement
- Vibration motor and sound generator for reliable feedback

Art.-No.

M611L



METRALINE VC SENSE DC

Current-Voltage Tester for AC and DC Measurements

- Inductive current measurement
- Vibration motor and sound generator for reliable feedback
- Innovative DC measurement

Art.-No.

M611U



ProfiSafe 690L

Voltage, Phase, and Continuity Tester plus Phase Sequence Indicator for up to 690 V AC/DC per DIN EN 61243-3:2011 / VDE 0682-401

- Measurement of AC/DC voltages of 12 V to 690 V and indication of phase sequence and polarity.
- High levels of safety thanks to measurement category CAT IV 600 V/CAT III 690 V and VDE-GS testing.
- Rugged design with IP 65 protection, suitable for demanding environments.
- Clear display via LEDs and illuminated LCD display for precise values.

Art.-No.

M630J



METRAVOLT 12D +L

Voltage and Continuity Tester

- Measurement of AC and DC voltages between 24 V and 1000 V at frequencies up to 4 kHz
- The integrated continuity tester also allows resistance within a range of 0 to 1999 k Ω to be measured
- Voltage and resistance values appear in digital format on an LCD display
- LEDs indicate dangerous touch voltage and phase sequence
- The displayed measured value can be "frozen" on the LCD display by pressing the HOLD key
- Self-test and battery monitoring
- Impact-resistant, dust-proof plastic housing
- Series resistors integrated into both test probes guarantee excellent electrical safety

Art.-No.

M630G

METRAVOLT 1500

Voltage and Continuity Tester

- Fully automated measuring sequence
- Storage of measured values
- Self-test and battery monitoring
- Battery display
- Rugged housing
- High levels of safety (series resistors integrated into both test probes)

Art.-No.

M630P



SEAWARD PV:1525

Test Instrument for the Electrical Safety of Photovoltaic Systems

- Measurement of open-circuit voltage U_{oc} up to 1500 V DC
- Measurement of the short-circuit current I_{sc} up to 25 A
- Insulation resistance voltage up to 1500 V DC
- Measurement of low-resistance continuity with 200 mA
- Intuitive and user-friendly menu navigation
- Compact, mobile and lightweight - ideal for on-site use
- Bluetooth interface for updates

Art.-No.

601A911



SEAWARD PV:1525 Kit

Test Instrument for the Electrical Safety of Photovoltaic Systems

- Measurement of open-circuit voltage U_{oc} up to 1500 V DC
- Measurement of short-circuit current I_{sc} up to 25 A
- Insulation resistance voltage up to 1500 V DC
- Measurement of low-resistance continuity with 200 mA
- Intuitive, user-friendly menu navigation
- Compact, portable and lightweight - ideal for on-site use
- Current clamp for measuring operating current I power (w)
- Bluetooth interface for updates

Art.-No.

601A910



PROFITEST PVSUN MEMO

Test instrument for PV modules and strings per DIN EN 62446 (VDE 0126-23)

PROFITEST PV SUN MEMO, test instrument for testing PV modules and strings with up to 1000 V/20 A in accordance with DIN EN 62446, insulation measurement with test voltage of up to 1000 V, polarity testing, ground fault testing, and protective conductor continuity testing. Bidirectional USB interface - internal memory for 10,000 data records - PV software. With measurement cables and adapters in test case.

Art.-No.

M360D



PROFITEST PV1500

Peak Power Measuring Instrument and Characteristic Curve Tracer for Photovoltaic Systems

- Patented process: Determines peak power, series and parallel internal resistance with a single measurement.
- Module database: Large database that can be expanded at any time.
- Rapid troubleshooting and documentation: Efficient during initial start-up and later checks.
- Extended analysis: Characteristic curves provide additional insights for performance ratio and research.

Art.-No.

M360F



PROFiTEST PV1540

Peak Power Measuring Instrument and Characteristic Curve Tracer for Photovoltaic Systems

- Patented process: Determines peak power, series and parallel internal resistance with a single measurement.
- Module database: Large database that can be expanded at any time.
- Rapid troubleshooting and documentation: Efficient during initial start-up and later checks.
- Expanded analysis: Characteristic curves provide additional insights for performance ratio and research.

Art.-No.

M360G

METRALINE PV 1500

Current clamp for AC and DC

- LCD with illumination
- AC/DC current measurement up to 1000 A
- Non-contact voltage detection

Art.-No.

M611N



METRALINE EVSE IT

EVSE Adapter

- Simulation of the charging process per IEC 61851-1 / VDE 0122-1
- Direct connection to the installation tester
- No other adapters required

Art.-No. **Z525M**



METRALINE PRO-TYP EM II

Test Adapter for Electric Charging Points (single/3-phase, type 2) for PROFITEST incl. schuko socket

Art.-No. **Z525G**



PROFITEST H+E EASY CHECK

Function Tester for AC Charging Points per IEC 61851-1, VDE 0122-1

Complete Diagnosis of Electric Charging Stations by Pressing a Single Key

- Vehicle states
- PWM signal evaluation
- Short-circuit between CP and PE
- Phases and phase sequence
- Battery level

Easy Operation and Diagnosis

Compact, Battery-Powered Device which is Suitable for Outdoor Use

Art.-No. **M525F**



PROFITEST H+E EXPERT CHECK

Diagnostic Tester and Test Adapter for AC Charging Points per IEC 61851-1, VDE 0122-1

- Diagnostics and test adapter in a single instrument
- Display of positive and negative PWM voltages
- Testing for PE interrupt with display of time to trip in accordance with VDE 0122-1(IEC 61851-1)

Art.-No. **M525R**



PROFITEST H+E CABLE

Tester for standardised testing of e-charging cables.

- Automatic test sequence according to manufacturer specifications
- Manufacturer database
- Individual tests by qualified electricians, password-protected
- Connection of a keyboard, barcode and QR code reader for input
- Direct connection of charging cables mode 2 / 3
- Testing of 1-phase and 3-phase charging cables

Art.-No.

M525K



PROFITEST EMOBILITY

Adapter for standards-compliant testing of single and 3-phase, mode 2 and 3 charging cables with simulation of faults in accordance with EN 50678 / DIN EN 50699 and the manufacturer's specifications

- Testing of mode 2 and 3 single and 3-phase charging cables
- Function test, i.e. tripping test by means of simulating the following faults: interruption, reversed wires and PE to phase
- Measurement of protective conductor current with current clamp transformer as accessory
- Measurement of protective conductor and insulation resistance per DIN VDE 0701-0702 with the PROFITEST MXTRA / MTECH+
- Tripping test with nominal residual current and measurement of time to trip with the PROFITEST MXTRA / MTECH+
- Evaluation and documentation of the individual test steps with the PROFITEST MXTRA / MTECH+

Art.-No.

M513R



METRAHIT IM E-DRIVE BT

Multimeter, milliohmeter, insulation measuring instrument, coil tester and data logger for hybrid and electric drives - all-in-one

- Specially designed for e-mobility: multimeter, milliohmeter, insulation tester, inter-turn short circuit tester and data logger for safety and diagnostics testing at electric and hybrid vehicles in accordance with UN ECE R100 in a compact, hand-held instrument
- Accurate 4-wire milliohm measurement with 200 mA and 1 A measuring current, as well as micro-ohm resolution for measuring contact resistance
- Insulation testing up to 1000 V in accordance with EN 61557-2 / VDE 0413-2 and inter-turn short circuit testing with optional COIL adapter
- Integrated data logger with Bluetooth interface and software connection for convenient documentation during service work
- Highest levels of safety thanks to automatic blocking sockets (ABS), IP 52 protection and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee (can be extended to 5 years)

Art.-No.

M274S



METRACELL BT PRO

Mobile test device for evaluating stationary battery storage

- Compact and shock-proof due to ABS housing and rubber holster
- User guidance easy to use before, during and after the test
- CAT III 600V DC
- Rct and Rel measurement methods: possible electrical and electro-chemical damage to the battery block is reliably detected
- Battery operation: Up to 10 hours operating time
- Large internal memory: 300,000 records can be stored
- Voltage measurement: Designed for single and block voltage measuring up to 600V DC
- Capacity test: recording of discharge current and voltage curve
- Inclusion of all relevant parameters through optional accessories:
 - Temperature
 - Acid density
- Software: display, backup and logging of all measured values
- RFID Scanner: Use of RFID tags (125 kHz) for fast data acquisition possible
- Data transfer: transfer of battery databases is possible

Art.-No.

B100B



PROFITEST PRIME

Test instrument for testing the effectiveness of protective measures in electrical installations per DIN VDE 0100-600, machines and systems per VDE 0113-1, PV systems per VDE 0126-23 and electric charging stations per VDE 0122-1

- Measurement in AC/DC systems
- Measurement of internal system resistance and fault loop resistance with high test current up to 690 V AC / 800 V DC without tripping RCD types A and B
- Low-resistance measurement for protective and equipotential bonding conductors with 200 mA, as well as automatic polarity reversal and 25 A
- Testing of RCD types A, AC, F, B, B+, EV, MI and G/R, as well as SRCDs and PRCDs
- Combined RCD test with continuously rising ramp, time to trip, tripping current
- Insulation measurement up to 1000 V with rising ramp
- Testing of RCMs and IMDs
- Measurement of leakage and differential current
- Measurement of temperature and humidity
- Voltage measurement, 1000 V AC/DC
- Mains and battery operation (with limited functionality)
- Bluetooth and USB interfaces
- Push-print function – transmission of the measured value after measurement

Art.-No.

M516G



PROFITEST PRIME AC

Test instrument for testing the effectiveness of protective measures in electrical installations per DIN VDE 0100-600, machines and systems per VDE 0113-1, low-voltage switchgear and controlgear assemblies per VDE 0660-600-1, PV systems per VDE 0126-23 and electric charging stations per VDE 0122-1.

- Measurement in AC/DC systems
- Measurement of internal system resistance and fault loop resistance with high test current up to 690 V AC / 800 V DC without tripping RCD types A and B
- Low-resistance measurement for protective and equipotential bonding conductors with 200 mA, as well as automatic polarity reversal and 25 A
- Testing of RCD types A, AC, F, B, B+, EV, MI and G/R, as well as SRCDs and PRCDs
- Combined RCD test with continuously rising ramp, time to trip, tripping current
- Insulation measurement up to 1000 V with rising ramp
- Testing of RCMs and IMDs
- Measurement of leakage and differential current
- Measurement of temperature and humidity
- Voltage measurement, 1000 V AC/DC
- High-voltage testing: 2.5 kV AC, 500 VA, standard sequence, ramp function and pulse control mode
- Work safety concept for the inspector in accordance with DIN EN 50191 and EN 61557-14 with indicator lamp, emergency stop switch and key switch
- Mains and battery operation (with limited functionality)
- Bluetooth and USB interfaces
- Push-print function – transmission of the measured value after measurement

Art.-No.

M516H



PROFITEST PRIME AC Profipaket

Standard test instrument set for testing the effectiveness of protective measures in electrical installations per DIN VDE 0100-600, machines and systems per VDE 0113-1, PV systems per VDE 0126-23 and electric charging stations per VDE 0122-1

Art.-No.

M516M



METRALINE EARTH

Earthing Resistance and Low-Resistance Measuring Instrument

- Color graphic display
- Easy menu navigation
- Professional earthing measurement (3-wire, 4-wire and Wenner)
- USB interface for updates

Art.-No.

M590R



GEOHM XTRA

High-precision earthing and low-resistance measuring instrument with GPS

The measuring method for testing lightning protection systems under highly realistic conditions based on various types of the pulse measuring method is noteworthy. Furthermore, a professional earthing analysis can be conducted on the basis of measured interference voltages and interference frequencies. In combination with the integrated GPS module, all measured values are saved together with GPS coordinates. Measurements with various measuring methods:

- Earthing resistance by means of the 3/4-wire measuring method
- Selective earth resistance by means of the 3-wire measuring method with current clamp / advantage: no influence on parallel earth electrodes!
- Earth loop resistance with 2 current clamps or Rogowski coils, up to 4 m / advantage: no need to disconnect the earthing system!
- Soil resistivity according to the Wenner method – for the preparation of soil assessments
- Leakage current / current measurement by means of current clamp or flexible current sensor
- Low-resistance measurement with ≥ 200 mA per EN 61557-4 / VDE 0413-4
- Integrated GPS module for storing the positions of test objects

Art.-No.

M592B



METRACLIP EARTH

Clamp Meter for Measuring of Ground Loop Resistance, Loop Inductance, Touch Voltage and Leakage Current

- Compact and user-friendly - One-hand operation thanks to minimal weight and easy to open clamp with spring force compensation
- Large OLED display: up to 3 measured values can be read simultaneously
- Clamp opening \varnothing 35 mm max.
- Minimal influence due to interference current
- Measured value memory for resistance and leakage current, each with date and time
- Extremely safe thanks to CAT IV 600 V

Art.-No.

M312N



METRACLIP EARTH PE

Earthing clamp for measuring earth loop resistance and leakage current.

- Measurement of the loop impedance in a parallel-connected earthing network, whereby the measurement is much simpler than the conventional method with two auxiliary earth electrodes.
- The impedance measurement especially of low values is very accurate because the inductances present in the loop are taken into account in the resistance measurement.
- The current measured value can be „frozen“ in the display. By pressing the HOLD key or by opening the clamp. This enables convenient one-handed operation.

Art.-No.

M312P



METRISO TECH

Test Instrument for Insulation, Low-resistance and Voltage Measurements

- Digital and analog display, backlit
- Intelligent filter measurement-dependent, precision activation for the measurement of very high resistances with:
 - Beating, i.e., compensation of $16\frac{2}{3}$ Hz and 50 Hz interference
 - Attenuation of capacitive influences from power cables, etc.
 - Suppression of electric field influences
- Indication of dangerous touch voltage by means of LED
- Acoustic signal generation in the event of limit value violations Interference voltage detection when switched off
- Overvoltage protection - protects the instrument in the event of inadvertent connection to mains power
- Electronic fuse for protection of low-resistance (RLO) and resistance (R) measurements
- Device self-test with integrated 10 MO test resistor in accordance with EN 50110/VDE 0105-100
- Measurement category CAT II 1000 V, III 600 V measurement category CAT III 600 V, IV 300 V
- DAKKS calibration certificate

Art.-No.

M550P



METRISO TECH-Set

Insulation Tester - Set

Art.-No.

M551P



METRAHIT ISO

TRMS Multimeter with Insulation Measurement for Service Technicians, $\pm 30,000$ Digits

- Versatile TRMS multimeter with insulation resistance measurement up to $3.1\text{ G}\Omega$ at test voltages from 50 to 1000 V and integrated interference voltage detection
- Integrated data logger with memory for 15,400 measured values and IR interface for convenient PC connection
- Suitable for use in the field, rugged and safe: IP 54 protection, measuring categories 600 V CAT III / 1000 V CAT II, impact-resistant housing and patented automatic blocking sockets (ABS)
- Ideal for servicing and maintaining household appliances, electric machines, industrial trucks and photovoltaic systems
- Quality made in Germany including DAKKS calibration certificate and 3-year guarantee

Art.-No.

M246B



METRISO PRO

Analog Test Instrument for Insulation, Low-resistance and Voltage Measurements

Art.-No.

M550R



METRISO XTRA

Test Instrument for Insulation, Low-resistance and Voltage Measurements - with Memory

- Test voltages in fixed steps, variable, or as a ramp 50, 100, 250, 500, 1000 V
- Polarization index and absorption ratio
- Intelligent filter
 - measurement-dependent, precision activation for the measurement of very high resistances with:
 - Beating, i.e., compensation of $16^{2/3}$ Hz and 50 Hz interference
 - Attenuation of capacitive influences from power cables, etc.
 - Suppression of electric field influences
- Indication of dangerous touch voltage
- Acoustic signal generation in the event of limit value violations
- Interference voltage detection when switched off
- Overvoltage protection - protects the instrument in the event of inadvertent connection to mains power
- Electronic fuse for protection of low-resistance (RLO) and resistance (R) measurements
- Device self-test with integrated 10 MΩ test resistor in accordance with EN 50110/VDE 0105-100
- Backlit dot-matrix display for measured values and limit values
- Timer function 1 s ... 100 min
- Guard terminal for compensating surface current
- Measuring category CAT II 1000 V, III 600 V Measuring category CAT III 600 V, IV 300V
- DAkkS calibration certificate

Art.-No.

M550S



METRISO XTRA-Set

Insulation Tester - Set

Art.-No.

M551S



METRISO 5024

Analog Insulation Measuring Instrument / Low-Resistance Measuring Instrument / Voltmeter with Buzzer

- Insulation measurements with 100, 250, and 500 V measuring voltages with analog display
- Low-resistance measurements for protective and equipotential bonding conductor resistance
- Continuity buzzer and blinking LED indicate alarm status for erroneous and implausible measurements
- Fluttering pointer as last-resort warning functions

Art.-No.

M540E



METRISO PRIME

5000 V Insulation Measuring Instrument, Analog, battery operated

- Battery operation
- Extensive measuring range from 10 kΩ ... 1 TΩ
- Concise logarithmic display
- Test voltages: 100 V, 250 V, 500 V, 1000 V, 1500 V, 2000 V, 2500 V, 5000 V
- Measurements up to 2000 V in accordance with DIN VDE 0413
- Measuring range DC 100 kΩ ... 100 MΩ (1000 V)
- Voltage measurement up to 2000 VAC/DC
- Guard terminal for eliminating surface current
- 5 m extension cable as an accessory

Art.-No. **M550T**



METRISO PRIME-Set

5000 V Insulation Measuring Instrument, Analog

Art.-No. **M551T**



METRISO PRIME+

5000 V Insulation Measuring Instrument, Digital

- Extensive measuring range from 0.4 MΩ...1 TΩ
- Variable test voltage or in fixed steps 100 V, 250 V, 500 V, 1.0 kV, 1.5 kV, 2.0 kV, 2.5 kV, 5.0 kV
- Polarization index and absorption ratio
- Voltage measurements up to 1000 V
- Frequency measurement 15 Hz ... 1 kHz
- Capacitance measurement 0.1 ... 5 F
- Measurement of electrical discharge
- Guard terminal for compensating surface current
- Mains power supply or via battery pack
- Backlit dot-matrix display
- Digital display of measured values and limit values
- Timer function 1 s ... 100 min
- Data logger function
- DAkkS calibration certificate

Art.-No. **M5000**



METRISO PRIME 10

High-Precision Insulation, Low-Resistance and Voltage Measuring Instrument for up to 40 TΩ with 10 kV Test Voltage

- Insulation measurement up to 40 TΩ with 10 kV test voltage in accordance with EN 61557-2 / VDE 0413-2
- Test voltages in fixed steps of 50, 100, 250, 500, 1000, 2500, 5000 and 10,000 V
- Measurement with incrementally rising voltage
- Measurement of polarization index PI and absorption ratio DAR
- Measurement with shielded measurement cable
- Protection against voltage conducting objects
- Variable adjustment of limit values
- Digital filter for stabilizing measured values
- Creation of R/I or R/U diagrams
- Low-resistance measurement per EN 61557-4 / VDE 0413-4
- Continuity testing of protective conductors and equipotential bonding connections with a test current of ≥ 200 mA
- Storage of test results
- Rugged IP 67 hard case
- Measuring category: CAT III 1000 V / CAT IV 600 V

Art.-No.

M555A



METRAOHM 10

Low-Resistance Measuring Instrument

- 200 mA and 10 A test current
- Four-wire measurement for maximum precision
- Kelvin clips for milliohm measurements

Art.-No.

M630K



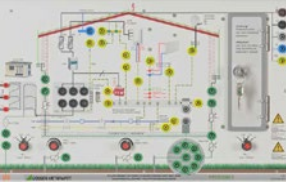
METRAOHM 413

Digital, Low-Value Resistance Measuring Instrument

- Measuring range from 0.01 Ohm ... 1999 kOhm
- Measurement cable zero balancing
- Compact and durable - for rugged service calls and laboratory use
- Overvoltage protection - protects the instrument in the event of inadvertent connection to mains voltage
- Indication of interference voltage
- IP 65 protection

Art.-No.

M630A



PROFiSIM 1

Installation board – “service line with main ground bus” – for fault simulation for testing the effectiveness of protective measures for measurements in accordance with IEC 60364.6 and EN 50110 (DIN VDE 0100-600, 0105-100)

Content

- Simulation of a building service line with main service fuse
- Simulation of external and internal lightning protection
- Implementation of various mains systems (TT, TN)
- Main ground bus with all important equipotential bonding cables and earth strips
- Single and double fault circuit
- Simulation of faults via switches
- Lockable fault simulator
- Console-like housing
- Can be used as a benchtop instrument or in an experimentation frame
- Carrying case (optional)

Training personnel (electricians):

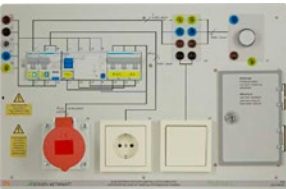
- Teachers, trainers, instructors, laboratory supervisors

Learners:

- Trainees, students, apprentices

Art.-No.

M560A



PROFiSIM 2

Installation board – “sub-distribution branch with installation circuits” – for fault simulation for measurements per IEC 60364.6 and EN 50110 (DIN VDE 0100-600, 0105-100)

Content

- Simulation of a sub-distribution branch with 3 electrical circuits
- Testing of various protective devices, amongst others type A/B RCDs
- Troubleshooting in installation circuits
- Single and double fault circuit
- Simulation of faults via switches
- Lockable fault simulator
- Console-like housing
- Can be used as a benchtop instrument or in an experimentation frame
- Carrying case (optional)

Training personnel (electricians):

- Teachers, trainers, instructors, laboratory supervisors

Learners:

- Trainees, students, apprentices

Art.-No.

M560B

Multimeters and Calibrators



Multimeters and handheld calibrators from GOSSEN METRAWATT stand for precision, safety, and quality "Made in Germany." They measure electrical quantities such as voltage, current, and resistance with the highest accuracy and combine reliability, convenience, and ruggedness in a single device. With true RMS measurement (TRMS), an automatic blocking socket (ABS), and an ergonomic design, the METRALINE, METRAHIT, and METRACAL series offer precise measurement results, maximum user safety, and certified quality - confirmed by a DAkkS calibration certificate and manufactured to the highest standards.

Contents

- 2 - 2 Analog Multimeters
- 2 - 3 Digital Multimeters
- 2 - 7 Special Multimeters
- 2 - 8 Handheld Calibrators
- 2 - 9 Cable Fault Locating Instrument



METRAmax 2

Analog Multimeter for Training Applications

- Adjustable zero point ... either left center
- High overload capacity and rugged design
- Compact dimensions, lightweight and easy to use
- Automatic battery cutoff

Art.-No.

M102A



METRAHit 2A

Analog Multimeter for Electrical Applications Kl. 2.5

- Large measuring range for voltage, current, resistance, and level
- High reliability thanks to rugged design
- Compact, lightweight and easy to use

Art.-No.

M101A



METRALINE DM41

Digital multimeter with temperature measurement

- Broad range of functions for all aspects of electrical engineering, training, and study
- High levels of safety for users and the instrument thanks to automatic blocking sockets (ABS) and measuring categories CAT IV 300 V / CAT III 600 V
- Compact, ergonomic design with illuminated 4000-digit digital display
- Rugged construction with rubber holster and 3-year guarantee

Art.-No.

M192A



METRALINE DM61

Digital Multimeter with Analog Bar Graph and Temperature Measurement

- Current measurement up to 660 A with optional current clamp transformer (clip function 1000:1)
- High levels of safety for users and the instrument thanks to automatic blocking sockets (ABS) and measuring categories CAT IV 300 V / CAT III 600 V
- Broad range of measuring functions for all aspects of electrical engineering
- Backlit, dual digital display with 6600 digits and bar graph
- Rugged construction with rubber holster and 3-year guarantee

Art.-No.

M194A



WZ1001

Current Clamp Transformer, 1...1000 A AC

- AC clamp meter with transformation ratio of 1000:1
- Output signal: 1 mA AC / 1 A AC
- Accuracy: Class 1 (2.5 VA)
- Measuring category: CAT III 600 per IEC 61010
- Frequency range: 40 ... 1000 Hz
- Clamp opening: 43 mm, cable length: 1.5 m
- Minimal ratio error
- Large clamp opening for cables with diameters of up to 43 mm

Art.-No.

Z194A



METRALINE DM62

TRMS Digital Multimeter with Analog Bar Graph and Temperature Measurement

- TRMS measurement up to 2 kHz for accurate results even with distorted signals
- High levels of safety for users and the instrument thanks to automatic blocking sockets (ABS) and measuring categories CAT IV 300 V / CAT III 600 V
- Broad range of functions for all aspects of electrical engineering
- Backlit, dual digital display with 6600 digits and bar graph
- Rugged construction with rubber holster and 3-year guarantee

Art.-No.

M197A



METRAHit 2+

TRMS Digital Multimeter with Analog Bar Graph and Temperature Measuring Instrument

- TRMS measurement for accurate results even with distorted signals
- High levels of safety for users and the instrument thanks to patented automatic blocking sockets (ABS) and measuring category CAT III 600 V
- Broad range of functions for all aspects of electrical engineering, training, and study
- Backlit digital display with 6000 digits and bar graph
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M205A



METRAHit WORLD

TRMS Digital Multimeter with Analog Bar Graph, Temperature Measurement and Infrared Interface

- TRMS measurement with a broad range of functions including RPM measurement
- IR interface for easy data transfer
- For universal use involving demanding measuring tasks in all areas of electrical engineering, education, and industry
- High levels of safety for users and the instrument thanks to patented automatic blocking sockets (ABS) and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M206A



METRAHIT AM TECH+GH

TRMS Universal Multimeter with Digital Display (12,000 digits) and Current Measuring Ranges Optimized for Measuring Transducers

- TRMS measurement (AC, AC+DC) up to 10 kHz and basic accuracy of up to $\pm 0.05\%$
- Direct current measurement with increased accuracy of 0.1% for measurements at measuring transducers
- Versatile thanks to broad range of functions: voltage, current, resistance, capacitance, temperature, frequency and clip function for current transformers and sensors
- Highest levels of safety for users and the instrument thanks to patented automatic blocking sockets (ABS) and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M243E



METRAHIT AM XTRA

TRMS system multimeter with digital display (12,000 digits), data logger and IR interface

- Integrated data logger for up to 15,400 measured values with IR interface for convenient PC connection and power pack socket for long-term measurements
- Additional filter function and voltage measurement with reduced input impedance for limiting interference, e.g. for measurements at frequency converters
- Broad range of functions with TRMS measurement (AC, AC+DC) up to 20 kHz and basic accuracy of up to $\pm 0.05\%$
- Highest levels of safety and durability thanks to patented automatic blocking sockets (ABS), impact resistant housing and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M240A



METRAHIT PM XTRA

High-end TRMS system multimeter with digital display (60,000 digits), data logger and IR interface

- Integrated data logger for up to 61,600 measured values with IR interface for convenient PC connection and power pack socket for long-term measurements
- Additional filter function and voltage measurement with reduced input impedance for limiting interference, e.g. for measurements at frequency converters
- Versatile range of functions with TRMS measurement (AC, AC+DC) up to 100 kHz and basic accuracy of up to $\pm 0.05\%$ for demanding measuring tasks
- Highest levels of safety and durability thanks to patented automatic blocking sockets (ABS), impact resistant housing and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M250A



METRAHIT PM PRIME BT

TRMS precision multimeter with 310,000 digits, Bluetooth and IR interfaces

- Versatile precision multimeter with TRMS measurement (AC, AC+DC) up to 100 kHz and basic accuracy of up to $\pm 0.02\%$ for demanding measuring tasks
- Integrated data logger for up to 300,000 measured values with IR and Bluetooth interfaces for convenient PC connection and power pack socket for long-term measurements
- Triple display with 310,000 digits for simultaneous display of various measured values
- Highest levels of safety and durability thanks to patented automatic blocking sockets (ABS), impact resistant housing and measuring categories CAT IV 300 V and CAT III 600 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No.

M248B



METRAHIT IM TECH BT

Multimeter, Milliohmmeter and Data Logger

- High-end multimeter with milliohmmeter and data logger in a compact, hand-held instrument
- Accurate 4-wire milliohm measurement according to Kelvin with up to 1 A measuring current and micro-ohm resolution, ideal for lightning protection and bonding tests
- High-performance data logger for up to 300,000 measured values with real-time clock and software connection via Bluetooth, or optionally via USB
- Optionally programmable test sequences for automated measurement
- Color graphic display, quick-change rechargeable battery and modular power supply for maximum flexibility in the field
- Highest levels of safety thanks to automatic blocking sockets (ABS), IP 52 protection and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee (can be extended to 5 years)

Art.-No.

M272S



METRAHIT IM XTRA BT

Multimeter, Milliohmeter, Insulation Measuring Instrument, Coil Tester and Data Logger in a Single Instrument

- All-in-one instrument: multimeter, milliohmeter, insulation tester, inter-turn short circuit tester and data logger in a single, compact hand-held instrument
- Accurate 4-wire milliohm measurement according to Kelvin with up to 1 A measuring current and micro-ohm resolution for bonding and lightning protection tests
- Insulation testing up to 1000 V in accordance with EN 61557-2 / VDE 0413-2 and inter-turn short circuit testing with optional COIL adapter – ideal for electric motors and generators
- Integrated data logger with real-time clock and Bluetooth interface for reliable and convenient documentation
- Color graphic display, quick-change rechargeable battery and modular power supply for maximum flexibility in the field
- Highest levels of safety thanks to automatic blocking sockets (ABS), IP 52 protection and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee (can be extended to 5 years)

Art.-No.

M273S



METRAHIT IM E-DRIVE BT

Multimeter, milliohmeter, insulation measuring instrument, coil tester and data logger for hybrid and electric drives - all-in-one

- Specially designed for e-mobility: multimeter, milliohmeter, insulation tester, inter-turn short circuit tester and data logger for safety and diagnostics testing at electric and hybrid vehicles in accordance with UN ECE R100 in a compact, hand-held instrument
- Accurate 4-wire milliohm measurement with 200 mA and 1 A measuring current, as well as micro-ohm resolution for measuring contact resistance
- Insulation testing up to 1000 V in accordance with EN 61557-2 / VDE 0413-2 and inter-turn short circuit testing with optional COIL adapter
- Integrated data logger with Bluetooth interface and software connection for convenient documentation during service work
- Highest levels of safety thanks to automatic blocking sockets (ABS), IP 52 protection and measuring categories CAT IV 600 V and CAT III 1000 V
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee (can be extended to 5 years)

Art.-No.

M274S



Coil Adapter XTRA

COIL Adapter XTRA for Inter-Turn Short Circuit Test

- Reliable inter-turn short circuit test with 1000 V surge voltage (surge test) in combination with METRAHIT IM XTRA or IM E-DRIVE
- For universal use with electric machines with inductances ranging from 10 μH to 5 H (corresponding to approx. 160 VA to 80 MVA for 3-phase, 400 V DIN motors)
- Automatic polarity reversal for reliable compensation of remanence effects
- Clear-cut graphic display of measurement results directly at the multimeter for fast and accurate diagnosis

Art.-No.

Z270M



METRAHIT ENERGY

TRMS power multimeter and power quality analyzer with 60,000 digits

- TRMS power multimeter and PQ analyzer with a resolution of 60,000 digits in a compact hand-held instrument
- Simultaneous current and voltage measurement with precise calculation of power and energy, as well as active and reactive components
- Power quality analysis: detection of over and undervoltage, dips and swells, transients and harmonics up to the 15th harmonic
- Data logger with real-time memory for up to 300,000 measured values – ideal for long-term measurements and energy balances
- For universal use in measuring energy consumption and power quality for household appliances, IT and communications technology and in industrial applications
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No. **M249A**



METRAHIT ISO

TRMS Multimeter with Insulation Measurement for Service Technicians, ±30,000 Digits

- Versatile TRMS multimeter with insulation resistance measurement up to 3.1 GΩ at test voltages from 50 to 1000 V and integrated interference voltage detection
- Integrated data logger with memory for 15,400 measured values and IR interface for convenient PC connection
- Suitable for use in the field, rugged and safe: IP 54 protection, measuring categories 600 V CAT III / 1000 V CAT II, impact-resistant housing and patented automatic blocking sockets (ABS)
- Ideal for servicing and maintaining household appliances, electric machines, industrial trucks and photovoltaic systems
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No. **M246B**



METRAport 40S

TRMS Folding Multimeter for Automotive Service

- Compact TRMS multimeter, can be folded for best possible reading angle and hands-free operation
- Precise measurements with a variety of additional functions: temperature, frequency and duty cycle measurement up to 1 MHz, as well as RPM measurement with optional sensor
- Resettable auto-fuse in the current measuring circuit – saves time and money by eliminating the need for replacement fuses
- USB port for fast and convenient data transfer
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No. **M234D**



METRAHit 27Ex

Milliohmmeter for Use in Potentially Explosive Atmospheres

- ATEX-certified milliohmmeter for safe use in potentially explosive atmospheres (Ex II 2 G Ex ia IIA T4 Gb)
- Accurate 4-wire Kelvin measurement with automatic offset balancing and high resolution of up to 10 μΩ
- Can be used in a variety of applications for bonding and lightning protection tests, cable and winding resistance, contact resistance at relays, contactors, weld seams and in UPS systems
- Compact, rugged and suitable for use in the field: impact-resistant rubber holster with tilt stand, Ex approved battery power supply and automatic energy-saving mode
- Quality made in Germany including DAkkS calibration certificate and 3-year guarantee

Art.-No. **M227F**



METRACAL CM PRO

High-precision multimeter and process calibrator for measuring and simulating electrical variables with integrated mA loop function.

- Universal process calibrator for simulating and measuring mA, mV, V, Ω and temperature signals for service, maintenance and commissioning.
- Integrated mA loop function with 24 V loop supply for supplying and testing 2-wire transmitters.
- Dual mode for simultaneous transmission and measurement as well as high-resolution color graphic display for structured calibration sequences.
- Four freely configurable shortcuts for frequently used measurement and/or calibration functions
- Can be expanded in the field via software upgrade - future-proof thanks to optional activation of additional functions
- Quality „Made in Germany“ - including DAkkS calibration certificate and 3-year warranty.

Art.-No.

M275P



METRACAL CM TECH

High-precision multimeter and process calibrator for measuring and simulating electrical variables with integrated mA loop function and HART communication

- Process calibrator with integrated HART communication for parameterization, diagnostics and calibration of intelligent field devices.
- Simulation and measurement of mA, mV, V, Ω and temperature signals for service, maintenance and commissioning. Integrated mA loop function with 24 V loop supply for supplying and testing 2-wire transmitters.
- Four freely configurable quick accesses for frequently used measurement and/or calibration functions.
- Dual mode for simultaneous transmission and measurement as well as clear color display for efficient calibration processes.
- Can be expanded in the field via software upgrade - future-proof thanks to optional activation of additional functions.
- Quality „Made in Germany“ - including DAkkS calibration certificate and 3-year warranty.

Art.-No.

M275T



METRACAL CM XTRA

High-precision multimeter and process calibrator for measuring and simulating electrical variables with integrated mA loop and graph function as well as HART communication

- Process calibrator with integrated HART communication and graph function for XT display of measurement and calibration signals including memory visualization for transparent signal curves.
- Universal simulation and measurement of mA, mV, V, Ω and temperature signals for service, maintenance and commissioning.
- Integrated mA loop function with 24 V loop supply for supplying and testing 2-wire transmitters.
- Four freely configurable quick accesses for frequently used measurement and/or calibration functions.
- Dual mode for simultaneous transmission and measurement as well as high-resolution color graphic display for structured and efficient calibration processes.
- Quality „Made in Germany“ - including DAkkS calibration certificate and 3-year warranty.

Art.-No.

M275X



METRACABLE TDR PRO

METRACABLE TDR Pro – Time Domain Reflectometer

- Compact hand-held instrument for pinpointing cable faults and measuring cable lengths of up to 14 km, accurate down to 0.3 m
- For universal use with twisted pair, telecommunications, coaxial, and electrical cables, regardless of cross-section
- Convenient operation thanks to AUTO mode, customizable cable database, freeze function and backlit graphic display with multilingual menu navigation (DE/EN/FR)
- Wireless data transfer via Bluetooth with convenient evaluation and documentation using METRACABLE Manager software
- Quality made in Germany with 3-year guarantee

Art.-No.

M281A

Single-Element Measuring Instruments



Current clamps are an essential component for safe, fast, and informative current measurements in electrical installations, systems, devices, and machines - from initial commissioning and troubleshooting to routine maintenance. They enable indirect current measurement without interrupting the circuit, thereby supporting efficient workflows and ensuring high operational reliability. This means that load conditions, inrush and operating currents, as well as anomalies, can be reliably recorded - as a basis for informed decisions, fault-free operation, and the evaluation of electrical systems in accordance with standards.

Gossen Metrawatt's portfolio of current clamps covers a wide range of modern applications - from traditional electrical trades and industrial maintenance to demanding measurement tasks in photovoltaic and DC environments. Depending on the model, multi-purpose clamp meters for current, voltage, frequency, and other multimeter functions are available, as well as flexible current sensors for confined installation spaces and solutions for high currents on cables and busbars. Functions such as true RMS measurement (TRMS), low-pass filters (LPF), or non-contact voltage detection help to ensure precise results even at measuring points affected by frequency and promote safe, traceable measurement and test procedures in everyday use.

Contents

- 3 - 2 Clamp Meters
- 3 - 6 Earth Clamp Meters



METRALINE CM 400

Current clamp for AC and DC

- LCD panel with background illumination
- AC/DC current measurement up to 400 A
- Non-contact voltage detection

Art.-No.

M611M

METRALINE PV 1500

Current clamp for AC and DC

- LCD with illumination
- AC/DC current measurement up to 1000 A
- Non-contact voltage detection

Art.-No.

M611N

METRACLIP 41

AC-DC Current Clamp to 40 A

- Precise, contactless measurement of alternating and direct current, as well as complex current waveforms
- True RMS value display (TRMS)
- Automatic measuring range selection
- Freezing of measured value (DATA HOLD)
- Automatic zero balancing
- Automatic shutdown
- Hall effect technology
- Suitable for automobile production, manufacturing, service, and for 4...20 mA in industrial settings.

Art.-No.

M320A

METRACLIP 410

AC-DC Current Clamp to 400 A

- Precise, contactless measurement of alternating and direct current
- Measurement of complex current waveforms
- True RMS value display (TRMS)
- Automatic measuring range selection
- Freezing of measured value (DATA HOLD)
- Automatic zero balancing
- Automatic shutdown
- Hall effect technology Suitable for automobile production, manufacturing, service, and in industrial settings.

Art.-No.

M320B



METRACLIP 61

Digital leakage current clamp

- DATA HOLD display
- Measurement of leakage and charging current
- Display: digital and bar graph
- 2 measuring ranges 30/300 mA and 30/300 A
- Insensitive to external magnetic fields
- Clamp opening 40 mm
- Compact, portable, and lightweight

Art.-No.

M311D



METRACLIP 63

Milliamperere Current Clamp for Measuring Fault and Process Signal Current

- Equipped with power saving circuit
- Data interface
- Indication of overranging
- Flexible current sensor for use in difficult to access locations

Art.-No.

M311G



METRACLIP 64

Milliamperere Current Clamp for Measuring Fault and Process Signal Current

- Equipped with power saving circuit
- Data interface
- Indication of overranging
- Flexible current sensor for use in difficult to access locations

Art.-No.

M311H



METRALINE VC SENSE

Current-Voltage Tester with 7-Segment Display

- Inductive current measurement
- Vibration motor and sound generator for reliable feedback

Art.-No.

M611L



METRALINE VC SENSE DC

Current-Voltage Tester for AC and DC Measurements

- Inductive current measurement
- Vibration motor and sound generator for reliable feedback
- Innovative DC measurement

Art.-No.

M611U

METRACLIP 85

Clamp Multimeter for Current, Voltage and Frequency, 600 V CAT IV

- Electrical safety per IEC 61010
- TRMS measurement
- Current measurement (AC and DC)
- Voltage measurement (AC and DC)
- Starting and overcurrent measurement (true inrush)
- Frequency measurement
- Automatic measuring range selection
- Relative and differential measurements
- Display value storage (Data Hold)
- Data logging (min., max., peak)
- Continuity test, acoustic signal
- Resistance measurement
- Diode test
- Temperature measurement, type K thermocouple
- Connection of sensors and measuring transducers with voltage output
- LCD / digits backlit in blue 6,000
- Auto power-off
- Test report incl.

Art.-No.

M312J

METRACLIP 86

Clamp Multimeter for Current, Voltage, Power, Harmonics and Frequency, 600 V CAT IV

- Electrical safety per IEC 61010
- TRMS measurement
- Current measurement (AC and DC)
- Voltage measurement (AC and DC)
- Power measurement (W, VA, var and PF)
- THD measurement
- Starting and overcurrent measurement (true inrush)
- Frequency measurement
- Automatic measuring range selection
- Relative and differential measurements
- Display value storage (Data Hold)
- Data logging (min., max., peak)
- Continuity test, acoustic signal
- Resistance measurement
- Diode test
- Phase sequence display
- Phase sequence
- LCD / digits backlit in blue 6,000
- Auto power-off
- Test report incl.

Art.-No.

M312K



METRACLIP 87

Clamp Multimeter for Current, Voltage, Power, Harmonics and Frequency, 1000 V CAT IV

- Electrical safety per IEC 61010
- TRMS measurement
- Current measurement (AC and DC)
- Voltage measurement (AC and DC)
- Power measurement (W, VA, var and PF)
- Crest factor measurement (CF)
- Displacement factor (DPF)
- Residual ripple
- THD measurement
- Starting and overcurrent measurement (true inrush)
- Frequency measurement
- Automatic measuring range selection
- Display value storage (Data Hold)
- Data logging (min., max., peak)
- Continuity test, acoustic signal
- Resistance measurement
- Recording of measured values
- Wireless data transmission via Bluetooth
- LCD / digits backlit in blue 10,000
- Auto power-off
- Software for analyzing measured values
- Test report incl.

Art.-No.

M312L



METRACLIP EARTH

Clamp Meter for Measuring of Ground Loop Resistance, Loop Inductance, Touch Voltage and Leakage Current

- Compact and user-friendly - One-hand operation thanks to minimal weight and easy to open clamp with spring force compensation
- Large OLED display: up to 3 measured values can be read simultaneously
- Clamp opening \varnothing 35 mm max.
- Minimal influence due to interference current
- Measured value memory for resistance and leakage current, each with date and time
- Extremely safe thanks to CAT IV 600 V

Art.-No.

M312N



METRACLIP EARTH PE

Earthing clamp for measuring earth loop resistance and leakage current.

- Measurement of the loop impedance in a parallel-connected earthing network, whereby the measurement is much simpler than the conventional method with two auxiliary earth electrodes.
- The impedance measurement especially of low values is very accurate because the inductances present in the loop are taken into account in the resistance measurement.
- The current measured value can be „frozen“ in the display. By pressing the HOLD key or by opening the clamp. This enables convenient one-handed operation.

Art.-No.

M312P

Network Technology



Network and communication testers are professional tools for installing, maintaining, and troubleshooting modern ICT communication and data networks. They make it possible to quickly identify, locate, and analyze cable faults, connection problems, and signal interference - both in passive cabling and in active networks. With features such as wire pair identification, TDR fault location, PoE analysis, link tests, and automatic documentation, they offer comprehensive support for commissioning networks and testing their quality. Thanks to their robust design and intuitive user guidance, they are ideally suited for daily use in the field.

Contents

- 4 - 2 Cable Finder
- 4 - 4 Network Testers



KE301 Classic Kit

Multifunctional line tracers!

- Compact set for quickly localizing and testing telephone lines using alligator clips or RJ-11
- Cable lengths of up to 15 km, signal tracking up to a distance of 60 cm
- Continuity and resistance testing up to 100 kΩ with LED display
- Rugged housing with signal lamp and flashlight function
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D130C



KE401 IT Kit

Multifunctional line tracers!

- Line locator for telephone, IT and ISDN networks with RJ-11 and RJ-45
- Link-blink function for port identification at switches and routers
- Accurate signal localization thanks to sinusoidal signal and integrated interference filter
- Continuity testing and resistance measurement with acoustic feedback and LED display
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D140C



KE501 Elektro Kit

Multifunctional line tracers!

- Specially designed for electrical installations: identification of voltage-free wires, cables, and electrical circuits
- High levels of safety thanks to interference voltage protection up to 350 V AC
- Acoustic signaling and LED display for reliable identification of individual conductors
- Impact-resistant, handy housing for use on construction sites and for service work
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D150C



KE701 Telco Kit

Multifunctional line tracers!

- Multifunctional test instrument for telephone, network and ISDN applications
- Permits continuity, resistance, and network testing with acoustic signaling and port finder function
- Six selectable search frequencies for accurate wire and wire pair identification at up to 15 km
- Integrated acoustic resistance signal permits quick assessment of cable condition
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D170C



KE801 LWL Kit

Multifunctional line tracers!

- Combination line detector kit for copper and fiber optic cables – highly accurate and easy to use
- Reliably identifies cables, wire pairs and network connections, even in complex installations
- Integrated laser light source for optical continuity testing of fiber optic runs of up to 10 km
- Acoustic and visual signaling for quick fault localization and reliable identification
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D180C

TAE-Adapter



The Breakout Adapter splits individual RJ lines, allowing for separate testing.

- Adapter for signal pickup at TAE and RJ sockets – no need to open the socket
- Compatible with EasyTest system instruments (KE7200, ET400, ET720, ET800) for network and line testing
- Modular design with 6/8-pin adapter, RJ-11/RJ-45 cable and TAE adapter for flexible wiring
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

Z130C



KE7000 Kit

Cost-efficient cable testers Made in Germany!

- Network tester set for quick and easy testing of telephone, data and coaxial cables via RJ-11, RJ-45 and optional adapters
- Automatically detects continuity, interruption, short circuit, reversal, shielding and multiple faults for reliable cable diagnosis
- Increased work efficiency thanks to simultaneous display of test results on both the master and the remote unit
- High levels of safety thanks to interference voltage protection up to 60 V DC with visual warning indicator
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D700A



KE7200

KE7200 Ethernet Performance Tester

- Accurate detection and localization of cable faults starting from a single wire pair, as well as TDR cable length measurement up to 200 m
- Integrated memory and Ethernet Manager software for convenient documentation of measurements during initial start-up, fault diagnosis and network analysis
- PoE load test up to 90 W in accordance with IEEE 802.3 af/at/bt, as well as identification of active connections (10/100/1000 Mbit) and network scan with ping stress test
- Configurable cable database with management of up to 32 remote units for efficient measuring sequences
- Rugged quality made in Germany with intuitive operation and protection against interference voltage up to 60 V DC

Art.-No.

D720A



KE7010 Remote-Unit

KE7010 Remote Unit

- Active remote unit with integrated microprocessor and RJ-45 connection for precise network testing
- Perfect addition to the KE7200 for efficient, large-scale network analysis
- Clear-cut pass/fail indication via green LED for checking results quickly and reliably on site
- Integration of up to 32 units with freely selectable IDs for easy assignment within the test system
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D701B



KE7701 Kit

The ideal basic equipment for troubleshooting in ICT networks!

- Versatile set for network testing and cable tracing with KE7000 and KE301 – ideal for installation work, service calls and troubleshooting
- Permits accurate LAN, telephone and cable testing, including wire pair identification and fault localization
- Efficient work at both ends of the cable thanks to simultaneous display at both units
- High levels of safety thanks to interference voltage protection up to 60 V DC and rugged, portable design
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D707A



KE7801 Kit

The ideal basic equipment for troubleshooting in ICT networks!

- Complete set for testing and troubleshooting, as well as for identifying network, telephone and coaxial cables
- Two KE7000 cable testers for detecting wiring faults, short circuits, interruptions and shield faults – with display at both ends and surge protection up to 60 V DC
- KE801 fiber optic and copper cable detector kit for quick localization of cables and wire pairs with link test, port finder function and surge protection up to 120 V AC
- Integrated visual fault locator (VFL) for optical continuity testing of fiber optic cables
- Rugged complete system with case and RJ-45 to coax adapter set – quality made in Germany for professional field use

Art.-No.

D708A



KE7207 Kit

KE7207 Network and Telco Line Finder Kit

- Complete professional set for installing, testing and documenting ITC networks
- Combination of KE7200 network tester with memory function, two KE7010 remote units and KE701 Telco cable detector for fast and accurate troubleshooting
- Permits contactless localization of cables and wire pairs in telephone, network and voltage-free electrical installations
- Includes PC software for generating individual measurement reports and a wide range of accessories in an impact-resistant carrying case
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D727A



KE7208 Kit

KE7208 Network and Line Finder Kit Fiber + Copper

- Complete professional set for installing, testing and documenting ITC and fiber optic networks
- Combination of KE7200 network tester with memory function, two KE7010 remote units and KE801 fiber optic and copper cable detection kit for maximum versatility
- Permits rapid identification of cables, wire pairs and fiber optic connections with a tunable laser for optical continuity testing
- Includes PC software for generating individual measurement reports and a wide range of accessories in an impact-resistant carrying case
- Quality made in Germany – accurate, rugged and reliable for day-to-day service work

Art.-No.

D728A

Power Supply Technology



Power supplies are essential components whenever electrical and electronic systems need to be operated or tested reliably. They provide stable, regulated DC voltage and current signals that are essential for tests, continuous operation, simulation, and calibration. The SYSKON series fulfills these requirements with high precision, dynamics, and flexibility. These programmable DC power supplies (“constant current devices”) have the ideal design for use in lab, test, and automation applications where precise control, stable output values, and reliable performance are critical. From endurance and stress testing to product development and demanding test benches - our power supplies guarantee flexibility, maximum reproducibility, and quality for fault-free operation.

Contents

- 5 - 2 Power Supplies
- 5 - 4 Electronic Loads



SYSKON P500

Programmable DC power supply – 500 W, 60 V, 30 A

- Extremely short response time (2 ms)
- High-precision measuring accuracy
- Auto-range output
- 1700 memory locations for sequences
- 15 memory locations for basic settings
- Digital interfaces: USB, RS 232 (onboard) and GPIB (optional), as well as an analog interface
- Control software included
- Sense terminals
- Dynamic sink
- DAkKS calibration certificate as standard feature
- Drivers for LabView are available

Art.-No. **K346A**



SYSKON P800

Programmable DC power supply – 800 W, 60 V, 40 A

- Extremely short response time (2 ms)
- High-precision measuring accuracy
- Auto-range output
- 1700 memory locations for sequences
- 15 memory locations for basic settings
- Digital interfaces: USB, RS 232 (onboard) and GPIB (optional), as well as an analog interface
- Control software included
- Sense terminals
- Dynamic sink
- DAkKS calibration certificate as standard feature
- Drivers for LabView are available

Art.-No. **K347A**



SYSKON P1500

Programmable DC power supply – 1500 W, 60 V, 60 A

- Extremely short response time (2 ms)
- High-precision measuring accuracy
- Auto-range output
- 1700 memory locations for sequences
- 15 memory locations for basic settings
- Digital interfaces: USB, RS 232 (onboard) and GPIB (optional), as well as an analog interface
- Control software included
- Sense terminals
- Dynamic sink
- DAkKS calibration certificate as standard feature
- Drivers for LabView are available

Art.-No. **K353A**



SYSKON P3000

Programmable DC power supply – 3000 W, 60 V, 120 A

- Extremely short response time (2 ms)
- High-precision measuring accuracy
- Auto-range output
- 1700 memory locations for sequences
- 15 memory locations for basic settings
- Digital interfaces: USB, RS 232 (onboard) and GPIB (optional), as well as an analog interface
- Control software included
- Sense terminals
- Dynamic sink
- DAkkS calibration certificate as standard feature
- Drivers for LabView are available

Art.-No.

K363A



SYSKON P4500

Programmable DC power supply – 4500 W, 60 V, 180 A

- Extremely short response time (2 ms)
- High-precision measuring accuracy
- Auto-range output
- 1700 memory locations for sequences
- 15 memory locations for basic settings
- Digital interfaces: USB, RS 232 (onboard) and GPIB (optional), as well as an analog interface
- Control software included
- Sense terminals
- Dynamic sink
- DAkkS calibration certificate as standard feature
- Drivers for LabView are available

Art.-No.

K364A



SPL 250-30

Programmable Electronic Loads, Power: 200 W, Voltage: 0...80 V DC, Current: 0...30 A

- 4 operating modes: Constant current, constant voltage, constant load, constant power
- High-speed sequence and transient measurement, short-circuit proof, battery discharging, and other auxiliary functions
- Programmable current rise and fall time, steep edges
- Several groups of parameters (device settings) and sequences (load profile) can be saved and retrieved.
- Floating point input/no grounding
- Safe electrical isolation
- Input can be switched on and off
- Voltage or current control is possible with constant power
- Settings entered via rotary encoder and keypad
- Multifunctional LCD display
- Benchtop instrument, also suitable for mounting to a 19" rack
- High levels of operating safety thanks to safety functions and additional functions A multitude of protection and monitoring functions have been integrated, for example:
 - Limiting of the setting ranges for voltage and current with adjustable response delay and reaction.
 - Overcurrent protection (OCP)
 - Overvoltage protection (OVP)
 - Power limiting
 - Overtemperature protection
 - Protection of the electronic load in the event of polarity reversal
- An effective, intelligent cooling system reduces system temperature and results in increased power density
- The input connector terminals are especially well suited for large test current values.

Art.-No. **K852A**



SPL 400-40

Programmable Electronic Loads, Power: 400W, Voltage: 0...80 V DC, Current: 0...40 A

- 4 operating modes: Constant current, constant voltage, constant load, constant power
- High-speed sequence and transient measurement, short-circuit proof, battery discharging, and other auxiliary functions
- Programmable current rise and fall time, steep edges
- Several groups of parameters (device settings) and sequences (load profile) can be saved and retrieved.
- Floating point input/no grounding
- Safe electrical isolation
- Input can be switched on and off
- Voltage or current control is possible with constant power
- Settings entered via rotary encoder and keypad
- Multifunctional LCD display
- Benchtop instrument, also suitable for mounting to a 19" rack
- High levels of operating safety thanks to safety functions and additional functions A multitude of protection and monitoring functions have been integrated, for example:
 - Limiting of the setting ranges for voltage and current with adjustable response delay and reaction.
 - Overcurrent protection (OCP)
 - Overvoltage protection (OVP)
 - Power limiting
 - Overtemperature protection
 - Protection of the electronic load in the event of polarity reversal
- An effective, intelligent cooling system reduces system temperature and results in increased power density
- The input connector terminals are especially well suited for large test current values.

Art.-No. **K853A**

Light Measuring



Photometry offers precise solutions for detecting and evaluating light in industry, research, and photography. The product portfolio includes spectrometers for spectral light analysis, as well as lux and luminance meters for lighting and safety applications. Backed by calibration services and OEM solutions, GOSSEN stands for maximum accuracy, reliability, and quality "Made in Germany".



MAVOMASTER

Compact measuring and display device for MAVOPROBE

- Grid measurement for the assessment of workplaces and interior lighting
- Extensive measurement functions, relative, integral, deviation, ratio measurement
- Recording of minimum value, maximum value and mean value calculation
- Data logger with adjustable log interval
- Large 4 GB measured value memory, readable via USB, like an external drive on the PC
- Continuous operation via USB Power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging

Art.-No.

M525V



MAVOPROBE LUX / UVA

High precision measuring probe for illuminance class B DIN 5032-7 and irradiance UV-A 365 nm

- Simple functional expansion with optional luminance attachment
- Universal use as a measuring device or single- and multi-channel measuring system
- Simple system integration, serial data transmission, open protocol
- Self-sufficient calibration, low packaging effort and cost-effective shipping
- Sustainable device concept, firmware update via USB interface
- Optionally extendable connection cable and optional adapter for USB 2.0 plug A
- Measuring device and calibration from a single source!

Art.-No.

M526G



MAVOPROBE LUX 5032 B

High-precision measuring probe for illuminance class B DIN 5032-7

- Simple functional expansion with optional luminance attachment
- Universal use as a measuring device or single- and multi-channel measuring system
- Simple system integration, serial data transmission, open protocol
- Self-sufficient calibration, low packaging effort and cost-effective shipping
- Sustainable device concept, firmware update via USB interface
- Optionally extendable connection cable and optional adapter for USB 2.0 plug A
- Measuring device and calibration from a single source!

Art.-No.

M527G



MAVOPROBE LUX 5032 C

Precise measuring probe for illuminance class C DIN 5032-7

- Simple functional expansion with optional luminance attachment
- Universal use as a measuring device or single- and multi-channel measuring system
- Simple system integration, serial data transmission, open protocol
- Self-sufficient calibration, low packaging effort and cost-effective shipping
- Sustainable device concept, firmware update via USB interface
- Optionally extendable connection cable and optional adapter for USB 2.0 plug A
- Measuring device and calibration from a single source!

Art.-No.

M528G



MAVOPROBE MONITOR

High-precision contact measuring probe for luminance Class B DIN 5032-7

- Universal use as a measuring device or single and multi-channel measuring system
- Simple system integration, serial data transmission, disclosed protocol
- Self-sufficient calibration, low packaging effort and cost-effective shipping
- Sustainable device concept, firmware update via USB interface
- Optional extendable connection cable and optional adapter for USB 2.0 plug A
- Measuring device and calibration from a single source !

Art.-No.

M529G



MAVOLUX LUX / UVA - KIT

Illuminance class B DIN 5032-7 and irradiance UV-A 365 nm meter

- Combination measuring device for illuminance and irradiance UV-A 365 nm
- High-resolution measuring range for emergency lighting
- Simple functional expansion with optional luminance attachment
- Grid measurement for the assessment of workplaces and interior lighting
- Extensive measuring functions, relative, integral, deviation, ratio measurement
- Recording of minimum value, maximum value and average value calculation
- Data logger with adjustable Log interval
- Large 4 GB measured value memory, readable via USB, like an external drive on the PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for logging and data logging
- Measuring device and calibration from a single source!

Art.-No.

M538G



MAVOLUX 5032 B - KIT

Illuminance meter class B DIN 5032-7

- High-resolution measuring range for emergency lighting
- Simple functional expansion with optional luminance attachment
- Grid measurement for the assessment of workplaces and interior lighting
- Extensive measuring functions, relative, integral, deviation, ratio measurement
- Recording of minimum value, maximum value and mean value calculation
- Data logger with adjustable log interval
- Large 4 GB measured value memory, readable via USB, such as an external drive on the PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging
- Measuring device and calibration from a single source!

Art.-No.

M535G



MAVOLUX 5032 C - KIT

Illuminance meter class C DIN 5032-7

- Simple functional expansion with optional luminance attachment
- Grid measurement for the assessment of workplaces and interior lighting
- Extensive measurement functions, relative, integral, deviation, ratio measurement
- Recording of minimum value, maximum value and mean value calculation
- Data logger with adjustable log interval
- Large 4 GB measured value memory, readable via USB, like an external drive on PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging
- Measuring device and calibration from a single source!

Art.-No.

M536V



MAVOMONITOR - KIT

High-precision contact measuring meter for luminance class B DIN 5032-7

- Extensive measuring functions, relative, integral, deviation, ratio measurement
- Recording of minimum value, maximum value and mean value calculation
- Data logger with adjustable log interval
- Large 4 GB measured value memory, readable via USB, such as an external drive on the PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging
- Measuring device and calibration from a single source!

Art.-No.

M537G



MAVOLUX 5032C BASE

Illuminance Tester for the Measurement of Luminance

- Precision measurement of illuminance
- Color-corrected silicon photodiode
- Storage of up to 100 measured values
- Automatic and manual measuring range selection
- Illuminance units: Lux/footcandle (fc)

Art.-No.

F502B



MAVOLUX COMPACT

Illuminance Meter

- Maximum reliability – Classified measurement of illuminance in lx or fc in accordance with class C per DIN 5032-7, appendix B of DIN EN 13032-1 and CIE 69.
- Precise Measured Values – Accuracy amounts to + 3% + 1 digit of the display value.
- Broad measuring range – High initial sensitivity and a resolution of 0.1 lx or 0.01 fc, right on up to large illuminance values of 199,900 lx or 19,990 fc.

Art.-No.

F502C



MAVO-SPOT 2 USB

Luminance meter class B DIN 5032-7 for distance measurement with 1° measuring angle

- Spot measurement with 1° measuring angle
- SLR viewfinder with 1° measuring circle and 15° field of view
- Distance measurement from 1 m to ∞, with optional close-up lenses from 34 cm
- Comparison and ratio measurement for uniformity, contrast, deviation
- Contact measurement via optional measuring head and adapter disk
- Recording, display and storage of the measured values via GLUX 2 software
- Measuring device and calibration from a single source!

Art.-No.

F508G



MAVOSPEC BASE

Spectrometer for the specialist with LUX, CCT, CRI, PPF, TLCI, IES TM-30, flicker index / % / frequency, reference mode

- Configurable measured value display
- Excellent temperature-compensated measured value stability
- Large 4 GB measured value memory, readable via USB, like an external drive on the PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging
- Measuring device and calibration from a single source!

Art.-No. **F521G**



MAVOSPEC LITE

Spectrometer for the practitioner with LUX, CCT, CRI

- Configurable measured value display
- Excellent temperature-compensated measured value stability
- Large 4 GB measured value memory, readable via USB, like an external drive on the PC
- Continuous operation via USB with power bank, plug-in power supply or on the PC
- EXCEL macros for reporting and data logging
- Measuring device and calibration from a single source!

Art.-No. **M530G**



MAVOPAD

Flicker meter for PstLM, SVM, ASSIST Mp, IEEE 1789

- Many evaluation methods, both time and frequency weighted
- Universal display, measured values, time diagram, frequency spectrum
- High measurement accuracy and high resolution with 16 bit AD converter
- Extremely high sampling rate, up to 1.6 MHz with up to 4 channels
- Integrated data memory, CSV data format
- Measuring device and calibration from a single source!

Art.-No. **M610A**

Test Instruments for Medical Technology



The product lines SECULIFE and RIGEL Medical stand for innovative testing technology that ensures the highest level of safety in medical technology. They enable standards-compliant testing in accordance with IEC 60601 and IEC/EN 62353 - precise, efficient, and reliable for safety, metrological, and functional testing.

The diverse portfolio ranges from safety analyzers, functional and performance testers for defibrillators, infusion pumps, and ultrasound and high-frequency surgical devices to vital sign simulators for ECG, invasive and non-invasive blood pressure, SpO2, respiration, and temperature. In addition, light measurement and ambient light monitoring solutions provide extra reliability in imaging diagnostics - ensuring maximum safety and quality in any medical setting.

Contents

- 7-2 Electrical Safety
- 7-4 Function Testers
- 7-10 Simulation of Vital Signs



Rigel SafeTest 60+

Rigel Safe Test 60 is a rugged and reliable medical safety analyzer

- Manual control of fault conditions
- Testing in accordance with numerous international standards, including IEC 60601, 62353, 61010, and NFPA-99
- Insulation test in accordance with IEC62353
- ZAP function supports continuity test at laboratory level
- Secondary grounding warnings in order to ensure a valid test setup
- Precise high-amperage and low-energy grounding tests

Art.-No.

M699S



Rigel 62353 Plus

The Rigel 62353+ electrical safety analyzer provides an accurate and fast solution for testing in accordance with safety standard IEC 62353.

- All-in-one compliance with international standards, including IEC/EN 62353, NFPA-99, AS/NZ 3551
- Integrated electronic data storage and automated testing reduce paperwork and save time
- Flexible, customizable test routines that meet the needs of your business
- Simple PC communications link
- Battery-powered insulation and grounding tests permit faster and more convenient testing
- 50/100/250/500 VDC insulation testing permits testing of devices operated with 24 and 48 V DC, and up to 253 V AC
- The automatic secondary verification ensures correct results the first time precise combination tests: high amperage/low energy grounding
- Available in a variety of mains configurations for meeting local requirements all over the world

Art.-No.

M699C



SECULIFE ST BASE

Test instrument with standards-compliant test sequences for testing the electrical safety of devices after repair and for periodic testing (DGUV regulation 3, German medical devices operator ordinance MPBetreibV)

- Preconfigured and user programmable test sequences for testing electric devices quickly
- Extensive data management and storage concept for automated test sequences and individual measurements - for up to 50,000 data records
- High-resolution, brilliant 4.3" TFT color display
- User-created test sequences with the help of IZYTRONIQ

Art.-No.

M694A



SECULIFE ST BASE25

Test device with antimicrobial effectiveness, 25 A test current and standard-compliant test sequences for testing the electrical safety of medical devices (DGUV regulation 3, MPBetreibV)

- Antimicrobial effectiveness of front and housing of the tester against bacteria, viruses and fungi
- Pre-configured and self-programmable test sequences for fast testing of electrical devices and medical devices
- Comprehensive data management and storage concept
- Automatic test sequence and individual measurements for up to 50,000 data records
- High resolution and brilliant 4,3" TFT colour display
- Create your own test sequences with the help of „SequenceDesigner“ (free download in myGMC)

Art.-No.

M694B



Rigel 288 Plus

Small and Flexible Electrical Safety Analyzer with Battery-Powered Grounding, Insulation and Leakage Tests

- All-in-one compliance with international standards, including IEC/EN 62353, AAMI/IEC/EN 60601-1, IEC 61010, NFPA-99, AS/NZ 3551
- Integrated electronic data storage and automated testing
- Customizable test routines
- Direct printing via Bluetooth connectivity
- Battery-powered leakage, insulation and ground/grounding tests
- 50/100/250/500 VDC insulation testing permits testing of devices operated with 24 VDC and 48 VDC up to 253 VAC
- Automatic secondary verification
- Precise high-amperage, low-energy grounding tests
- Available in a variety of mains configurations Configurations

Art.-No. **M699B**



SECULIFE ST PRO

Test instrument with antimicrobial properties and standards-compliant test sequences for testing the electrical safety of medical products (DGUV regulation 3, German medical devices operator ordinance MPBetreibV)

- Antimicrobial effectiveness of front and housing of the tester against bacteria, viruses and fungi
- 4 mm application part sockets
- IEC / DIN EN 60601 and IEC / DIN EN 62353 Sequences
- Pre-configured and self-programmable test sequences for fast testing of electrical devices
- Fast access to measurement and test functions via the double rotary switch, direct selection keys and soft keys
- Compact, impact-resistant housing with integrated rubber protection
- Comprehensive data management and storage concept for automatic test sequence and individual measurements for up to 50,000 data records
- HTML report generation to USB memory

Art.-No. **M694C**



SECULIFE ST PRIME

Test Instrument with Antimicrobial Properties for Standards-Compliant Testing of the Electrical Safety of Electrical Medical Equipment, Including High-Voltage Test with up to 6 kV DC

- High-voltage test with up to 6 kV DC
- Test instrument surfaces feature antimicrobial properties
- Automated user guidance
- Protective conductor test, 200 mA AC/DC and 25 A AC
- 10 configurable terminals (4mm) for applied parts with switching functionality
- Automatic test sequences according to IEC 61010
- High-resolution, 4.3" color TFT display
- Touchscreen
- USB ports for data input and data transfer
- Remote control possible via PC (IZYTRONIQ)
- Integrated data storage for up to 50,000 objects

Art.-No. **M694H**



SECULIFE UP

Ultrasound wattmeter for power measurement at ultrasound systems

- Measuring ranges: 0 to 30 W and 0.5 to 10 MHz
- Resolution: 50 mW
- Pulse power measurement
- Continuous power measurement

Art.-No. **M695Y**



SECULIFE UL

Test instrument for measuring leakage current at ultrasound systems

- Testing of the upper and lower leakage current limit values
- Programmable test limits
- 1% accuracy over the entire range
- Data protocol with storage of 99 test reports
- PC utility software for setting up configurations and remote control

Art.-No. **M695X**



Rigel UniPulse 400

Rigel UniPulse 400 Defibrillator Tester

- Pacemaker functionality
- Compatible with monophasic, biphasic, and pulsed waveforms
- Color LCD display
- Easy, intuitive navigation with special quick keys for testing and simulation
- Rechargeable battery for operation without mains power
- Data download to PC via USB
- Non-inductive 50 Ω test load
- Patient simulator with ECG high output
- Multilingual firmware for use around the globe
- Portable, compact, and rugged
- Defibrillator energy discharge test
- Charging time test
- Cardiac synchronization test (refractory period)
- 40 selectable arrhythmias
- Power waveforms
- 5 pacemaker modes

Art.-No. **M699R**



SECULIFE DF PRO

Defibrillator analyzer for AED with pacemaker function, including calibration certificate

- Monophasic, biphasic, and biphasic pulsed energy measurement
- Simple testing of AED devices
- Full pulse analysis with monitor display of defibrillator waveforms
- Dropdown selection screens for all parameter options
- Defibrillator protection for pacemaker input
- 12-channel ECG simulation
- Capacity: 5000 V, 1000 joule

Art.-No. **M695R**



Seculife IF Base

Infusion Pump Analyzer

- Industrial-grade pressure sensor made of stainless steel
- Double injection system – eliminates inconsistencies during the discharge cycle

Art.-No.

M695Z



Rigel Multi-Flo 1Ch

Rigel Multi-Flo 1-channel infusion pump tester

- Instantaneous flow measurement with 1% accuracy
- Configurations with 1, 2, and 4 channels
- Automatic testing and data acquisition
- Fully compliant with IEC 60601-2-24
- Designed for ease of use
- Control of multiple Multi-Flo analyzers via a single PC
- Comprehensive data management
- Software for testing solutions
- Customizable test certificates
- Multi-Flo remote control
- Data analysis in real time
- Automatic test sequences
- Export to MS Excel
- Automatic data acquisition

Art.-No.

M699N



Rigel Multi-Flo 2Ch

Rigel Multi-Flo 2-Channel Infusion Pump Tester

- Instantaneous flow measurement with 1% accuracy
- Configurations with 1, 2, and 4 channels
- Automatic testing and data acquisition
- Fully compliant with IEC 60601-2-24
- Designed for ease of use
- Control of multiple Multi-Flo analyzers via a single PC
- Comprehensive data management
- Software for testing solutions
- Customizable test certificates
- Multi-Flo remote control
- Data analysis in real time
- Automatic test sequences
- Export to MS Excel
- Automatic data acquisition

Art.-No.

M699O



Rigel Multi-Flo 4Ch

Rigel Multi-Flo 4-Channel Infusion Pump Tester

- Instantaneous flow measurement with 1% accuracy
- Configurations with 1, 2, and 4 channels
- Automatic testing and data acquisition
- Fully compliant with IEC 60601-2-24
- Designed for ease of use
- Control of multiple Multi-Flo analyzers via a single PC
- Comprehensive data management
- Software for testing solutions
- Customizable test certificates
- Multi-Flo remote control
- Data analysis in real time
- Automatic test sequences
- Export to MS Excel
- Automatic data acquisition

Art.-No.

M699P



SECULIFE IF PRO

Multi-channel, modular infusion pump tester, for testing infusion pumps, basic unit without flow module

- 1, 2, 3 and 4-channel models available (customer retrofittable)
 - M6960_A01-> 1-channel version
 - M6960_A02-> 2-channel version
 - M6960_A03-> 3-channel version
 - M6960_A04-> 4-channel version
- PCA/bolus
- Back pressure simulation
- Occlusion alarm
- Trumpet curve analysis
- Automatic test sequences
- Interchangeable test modules
- Calibration of the test modules without the basic unit

Art.-No.

M6960



Rigel Uni-Therm

Rigel Uni-Therm High Performance Analyzer for HF Surgical Generators

- Three self-contained resistance load banks (CQM, HF leakage, power)
- Tests all ESUs, including those with high current vessel sealing technology
- High current power measurement
- High-resolution, low-induction load bank
- Simple user interface with detailed color screen
- Integrated automatic test report
- Analysis of contact quality monitoring (CQM)
- Performs all high frequency leakage tests in accordance with requirements specified in IEC 60601-2-2.
- Help screens with on-screen instructions
- Uni-Therm test sequences

Art.-No.

M699M



SECULIFE ES PRO

Electrosurgical Analyzer

- True RMS measurements with DFA® technology
- 1% measuring accuracy
- Uses external current transformers and loads
- Display of mV, mV Peak, mA, crest factor, and wattage
- Acquisition, storage, display, and download of waveforms
- Graphic display with bright white background illumination

Art.-No. **M695B**



SECULIFE ES TECH

Multifunctional, Multimode RF Surgery Analyzer

- DFATM technology – ultra-high-speed digitalization
- 2% measuring accuracy
- Embedded real-time operating system
- Auto-sequence mode
- User-defined test sequences
- Connection of external loads
- Internal loads from 5 to 5500 Ω
- USB (2) and Ethernet communication ports

Art.-No. **M695F**



SECULIFE ES XTRA

Electrosurgical Analyzer

- True RMS measured values with DFA® technology
- Auto-sequence mode
- Connection of external loads
- Internal loads from 1 to 6400 Ω in 1 Ω steps
- Network compatible
- Industry-standard current measuring technology
- mV, mV peaks, ma, crest factor and power ranges (Watt)
- QVGA color display with touchscreen
- Measuring accuracy of 1% of the measured value
- Digital calibration - no rotary potentiometers
- Selectable display options
- Graphic representation of the measured RF signal on the screen
- Standard (1000 mV) and low range (100 mV) with autoscaling function
- Measurement mode for pulsed HF waveforms for pulsed outputs with low duty cycle

Art.-No. **M695C**



SECULIFE ES PRIME

Multimode Electrosurgery Analyzer

- True RMS measured values with DFA® technology
- Auto-sequence mode
- Connection of external loads
- Internal loads from 1 to 6400 Ω in 1 Ω steps
- Network compatible
- Industry-standard current measuring technology
- mV, mV peaks, mA, crest factor, and power ranges (Watt)
- QVGA color display with touchscreen
- Measuring accuracy of 1% of the measured value
- Digital calibration - no rotary potentiometers
- Selectable display options
- Graphic representation of the measured RF signal on the screen
- Standard (1000 mV) and low range (100 mV) with autoscaling function
- Measurement mode for multiple pulsed HF waveforms for pulsed outputs with low duty cycle,
- Adjustable delay function

Art.-No.

M695U



SECULIFE DP PRO

Precision Digital Measuring Instrument for Pressure Measurement, Configurable

- Two freely configurable pressure ranges
- 0.05% accuracy
- RS-232
- Large graphic display
- Selectable options and parameter settings
- Standard pressure scales with 13 different technical units: (psi, mmHg@0c, mmHg@20c, inHg@0c, inHg@20c, cmH2O@20c, inH2O@4c, inH2O@20c, inH2O@60f, Kg/cm2, kpa, bar, mbar)
- Battery service life display (0 to 100%)
- Programmable digital filter
- 16-bit measurement
- Digital zero balancing

Art.-No.

M695U



SECULIFE DP BASE

Precision Digital Measuring Instrument for Pressure Measurement

- Interface for YSI 700 temperature sensor
- 0.5% fs accuracy (temperature)
- Min/Max temperature value storage
- Min/Max pressure value storage
- RS-232 serial interface
- Range -13.50 to 100.00 psi
- Pressure scales cover psi, inH2O, cmH2O, and mmHg
- Digital calibration
- 16-bit pressure measurement
- Digital zero balancing

Art.-No.

M695S



Rigel VenTest 800

Rigel VenTest, high-performance gas flow analyzer for measuring and calibrating ventilators

- All-in-one gas flow analyzer
- Measures and calculates all common respiratory parameters
- Compatible with gas standards and gas types: Air, O₂, N₂O, He, N₂, CO₂, and Mixed: Air/O₂, N₂O/O₂, He/O₂
- Built-in data storage with optional software for total traceability
- USB, RS232, and external trigger interface
- Portable with battery operation
- Bidirectional flow
- High and low pressure
- Differential pressure and barometric pressure
- Oxygen concentration
- Temperature
- Dew point
- 7 anesthetic concentrations (with MultiGasAnalyser™ OR-703)
- Respiratory parameters, including: Respiratory rate, time T_i, T_e, I:E ratio, T_i:T_{total} ratio, breath volumes V_t_i, V_t_e, minute volumes V_i, V_e, pressure P_{peak}, P_{mean}, PEEP, P_{plateau}, Peak flow, compliance and trigger for adult, pediatric, and HFO

Art.-No.

M690B



SECULIFE PS100

Patient Simulator for ECG

- 10 universal connections for patient cables
- ECG: 30, 60, 120, and 240 BPM
- Sinusoidal: 10, 60, and 100 Hz
- Square: 0.125 and 2.0 Hz
- Delta: 2 Hz
- High-level output (1 v p-p)
- Amplitude accuracy: +/- 2%
- Frequency accuracy: +/- 0.5% of the setting

Art.-No.

M695L



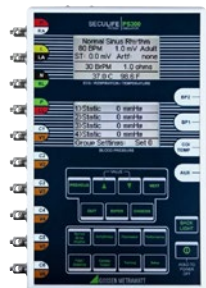
SECULIFE PS200

Multi-patient Simulator for ECG

- Graphic display with simultaneous, detailed status of parameters
- Dropdown selection screens list all parameter options
- Special switch-on function
- Automatic sequences for BPM, static pressure values, and power
- 10 universal connections for patient cables
- Mini DIN connector for BP cable
- Flash programmable for upgrades

Art.-No.

M695M



SECULIFE PS300

Universal-patient Simulator

- 19 amplitudes
- 49 arrhythmias
- Training mode
- Remote control
- Quick-start function
- Special switch-on function
- Automatic sequences for BPM, static pressure values, and power
- 10 universal connections for patient cables
- Mini DIN connectors for blood pressure cable V
- Full remote operation via RS-232
- Flash programmable for upgrades

Art.-No.

M695N



Rigel PatSim 200

PatSim 200 multiparameter patient simulator for ECG, RESPIRATION, TEMPERATURE, and IBP

- High-contrast, bright color display with intuitive operation
- Save and recall the 5 most frequently used sequences by pressing a single key
- Permanently assigned home key
- Rechargeable lithium-ion battery with up to 6 hours of operating time
- Universal ECG connectors
- On-screen waveform display for quick reference
- Firmware can be updated by the customer
- Country-specific settings,
- 12-channel NSR ECG simulation
- More than 40 selectable arrhythmias
- Power waveform
- Simulation of respiration on lead I or II
- Universal temperature simulation
- Two-channel IBP simulation
- Fetal simulation

Art.-No.

M699H



Rigel PatSim 400

5-in-1 multiparameter patient simulator for ECG, HZV, RESPIRATION, TEMPERATURE, and IBP

- High-contrast, bright color display with intuitive operation
- Save and recall the 5 most frequently used sequences by pressing a single key
- Permanently assigned home key
- Rechargeable lithium-ion battery with up to 6 hours of operating time
- Universal ECG connectors
- On-screen waveform display for quick reference
- Firmware can be updated by the customer
- Country-specific settings
- 12-channel NSR ECG simulation
- More than 40 selectable arrhythmias
- Power waveform
- Simulation of respiration on lead I or II
- Universal temperature simulation
- 4-channel IBP simulation
- Fetal simulation
- Cardiac output (HZV simulation optional)

Art.-No.

M699I



Rigel Uni-Sim

UNI-SiM is a battery-powered handheld vital signs simulator

- Cost-effective and compact solution for testing 6 of the most common vital signs with a single battery-powered simulator.
- 6-in-1 vital sign simulation
- Full NIBP simulation including dynamic and static pressure simulation
- Leakage and excess pressure tests with comprehensive SpO2 and ECG simulation
- Fast start-up and simulation at the push of a button
- Simulation of all 6 vital signs by pressing a single key
- Precise, highly realistic simulations
- Fully synchronized simulation signals
- Customizable NIBP simulations
- Customizable, physiologically correct NIBP simulation for systolic and diastolic pressure
- Integrated automation and data storage
- Easy data record management for up to 5000 data records
- Highly adaptable simulator
- Universal SpO2 simulation with PULS-R in 1% resolution as of 30%

Art.-No.

M699F



SECULIFE SP BASE

Digital SpO2 Simulator

- Small, portable, lightweight, rugged
- Intuitive user interface
- Color touchscreen
- Operation in preset or manual mode
- 6 oxygen saturation levels from 80 to 99%
- Heart rates from 30 to 240 BPM
- Adjustable perfusion index
- Pulse synchronized with instruments from the SECULIFE PS 100-300 and SECULIFE BP PRO series

Art.-No.

M696B



Rigel Puls-R

SpO2 finger simulator

- SpO2 simulation from 30% in 1% steps
- Pre-programmed R curves
- Indicator lamp for visualizing the connection
- Compatible with RIGEL UniSim
- Heartbeat simulation of 30-300 bpm

Art.-No.

M699J



SECULIFE BP PRO

NIBP Simulator for Testing Patient Monitors

- Multi-connect ports
- Peak pressure detection with simple reset function
- Read-out of synchronized invasive blood pressure
- ECG read-out with complete NSR waveform
- Digital pressure envelope offset for pressure
- $\pm 1\%$ deviation from measured pressure value
- Small, portable, lightweight
- Fetal/maternal option
- HZV (cardiac output)
- SpO2 option

Art.-No.

M695P



SECULIFE BPPRO KIT

- Including NIBP adapter and soft case
- Multi-connect ports
- Peak pressure detection with simple reset function
- Read-out of synchronized invasive blood pressure
- ECG read-out with complete NSR waveform
- Digital pressure envelope offset for pressure $\pm 1\%$ deviation from the measured pressure value
- Small, portable, lightweight
- Fetal/maternal option
- HZV (cardiac output) option
- SpO2 option

Art.-No.

M695W

GMC Instruments Academy



Safety Through Knowledge

Knowledge as the foundation for safety and success

For over 119 years, GMC Instruments GmbH has always stood for precision, safety, and innovation in electrical measurement and testing equipment. Our products and services help industries, trades, and public institutions worldwide conduct standard-compliant testing of electrical systems, machines, and equipment, analyze energy and power quality, and ensure that modern technologies are being applied safely.

Electrical safety means responsibility - for companies, managers, and employees. Technology can only be fully utilized when it is understood and used safely.

The GMC Instruments Academy offers practical seminars, workshops, and training courses to help you specifically develop your expertise, strengthen your problem-solving skills, and ensure that you can apply your knowledge confidently every day on the job.

Contents

- 8 - 4 Testing of Electric Devices
- 8 - 6 Testing of Electrical Installations and Systems
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Safety through knowledge – practical, understandable, worldwide

The challenge

Electrical test and measuring technologies are decisive for safety, quality, and efficiency of electrical systems and instruments. Lack of knowledge or outdated knowledge increases risks, delays test processes, and jeopardizes compliance with standards. Anyone assuming responsibility needs up-to-date, usage-oriented technical know-how that can be used immediately as part of everyday work. Electrical safety also means responsibility – for companies, managers, and teams.

The solution:

Further training in electrical measuring and testing technology

The GMC Instruments Academy combines technical expertise, practical knowledge, and didactic experience in a clearly structured, targeted further training portfolio. Seminars, training courses, and workshops provide insight into standards-compliant working, safe test procedures, and the professional use of state-of-the-art measuring and test instruments. After all, technology can only be fully utilized when it is understood and used safely.

Technical knowledge for professionals

Targeted further training for demanding test tasks for trades, industry, and medical technology. The content covers electrical safety, energy and power quality as well as medical technology, prepared in an understandable, clearly structured way with direct practical relevance.

Why our seminars are a compelling option

Practical training courses inspire confidence. Small groups make for an intensive learning experience. Certificates and extensive documentation ensure sustainable knowledge transfer. Meters and software are all available for practical training and allow trainees to put knowledge immediately into practice.

Quickly find the right seminar for you

You can find the right seminars with our new clearly structured online seminar wizard. Specific selection options include test task, meter, or topic area. All of which saves you time, reduces the coordination effort, and directly provides the right training for your technical needs.

Tailor your seminar to your needs based on your test task at

gmc-instruments.academy



Our learning formats – as flexible as your requirements

Our seminars provide specific training for demanding test tasks in electrical engineering. Content is tailored to actual applications, current standards, and typical requirements from everyday work.

Focus areas

- + Electrical safety
- + Energy and power quality
- + Medical technology

✓ Seminars according to test task

Standards-compliant test procedures, binding safety requirements, and typical applications are the focus. The seminars are geared to actual test tasks and reinforce the reliable implementation in day-to-day business.

✓ Product training courses

Manufacturer-specific training for the safe and efficient use of software relating to measuring and test instruments. The direct practical relevance ensures fast implementation and measurable benefits.

✓ Basic training courses

Sound basic knowledge of electrical engineering, standards, and safety creates a stable basis for standards-compliant working and safe test processes – conveyed clearly and with a structure tailored to practical requirements.

Four ways to practical further training

Our seminars combine knowledge of standards, test tasks, and practical application. Experienced trainers teach technical expertise in electrical safety, energy and power quality, and medical technology – manufacturer-independently. With four flexible training formats, we provide knowledge wherever it creates the greatest added value.

Seminars in Nuremberg

Centralized training courses with state-of-the-art equipment. Ideal for intensive training and direct knowledge sharing with experts.

Seminars near you

Regional events reduce travel times and ensure efficient further training of individual employees.

Seminars on your premises

In-house training courses for entire teams. Content tailored to products, test tasks, and customer structure of the subsidiary.

Online seminars

Live, interactive, dependable. Knowledge transfer without travel expenses, optimal for decentralized structures.



Safety through knowledge – practical, understandable, worldwide



GTT1211

Measurements for testing portable operating equipment, for periodic testing in accordance with DIN EN 50699 VDE 0702, and after repairs in accordance with DIN EN 50678 VDE 0701

- Compatible hardware: SECUTEST S2N+10/S2N+
- Compatible software: -

Art.-No. **GTT1211000R0001**



GTT1411IQ

Measurements for testing portable operating equipment, for periodic testing in accordance with DIN EN 50699 VDE 0702, and after repairs in accordance with DIN EN 50678 VDE 0701

- Compatible hardware: SECUTEST ST PRIME 25 A/PRO/PRO BT COMFORT/BASE, SECUTEST PRO IQ/ BASE IQ
- Compatible software: -

Art.-No. **GTT1411IQ0R0001**



GTT6200

Measurements for testing portable operating equipment, for periodic testing in accordance with DIN EN 50699 VDE 0702, and after repairs in accordance with DIN EN 50678 VDE 0701

- Compatible hardware: SECUTEST ST PRIME 25 A/PRO/PRO BT COMFORT/BASE, SECUTEST PRO IQ/ BASE IQ
- Compatible software: IZYTRONIQ

Art.-No. **GTT6200000R0001**



GTT8200

Measurements for testing portable operating equipment, for periodic testing in accordance with DIN EN 50699 VDE 0702, and after repairs in accordance with DIN EN 50678 VDE 0701

- Compatible hardware: SECUTEST ST PRIME 25 A/PRO/PRO BT COMFORT/BASE, SECUTEST PRO IQ/ BASE IQ
- Compatible software: ELEKTROMANAGER

Art.-No. **GTT8200000R0001**



GTT1224IQ

IZYTRONIQ Basic course: Fundamentals of portable objects in the user software

- Compatible hardware: -
- Compatible software: IZYTRONIQ

Art.-No. **GTT1224IQ0R0006**



GTT1226IQ

IZYTRONIQ Advanced course: Extended management of portable objects in the user software

- Compatible hardware: –
- Compatible software: IZYTRONIQ

Art.-No. **GTT1226IQ0R0006**



GTT1220IQ

Measurements for testing the effectiveness of protective measures in low-voltage systems, for initial testing per IEC 60364 DIN VDE 0100 and for periodic testing per DIN EN 50110 VDE 0105

- Compatible hardware: PROFITEST MXTRA IQ/MTECH+ IQ/MPRO IQ, PROFITEST MF TECH/MF XTRA
- Compatible software: -

Art.-No. **GTT1220IQ0R0001**



GTT1230IQ

Measurements for testing the effectiveness of protective measures in low-voltage systems, for initial testing per IEC 60364 DIN VDE 0100, for periodic testing per DIN EN 50110 VDE 0105 and for battery powered earth resistance measurements

- Compatible hardware: PROFITEST MXTRA IQ/MPRO IQ, PROFITEST MF TECH/MF XTRA
- Compatible software: -

Art.-No. **GTT1230IQ0R0001**



GTT1250

Measurements for testing the effectiveness of protective measures in low-voltage systems, for initial testing per IEC 60364 DIN VDE 0100 and for periodic testing per DIN EN 50110 VDE 0105

- Compatible hardware: METRALINE MF
- Compatible software: -

Art.-No. **GTT1250000R0001**



GTT6500

Measurements for testing the effectiveness of protective measures in low-voltage systems, for initial testing per IEC 60364 DIN VDE 0100 and for periodic testing per DIN EN 50110 VDE 0105

- Compatible hardware: PROFITEST MXTRA IQ/MTECH+ IQ / MPRO IQ, PROFITEST MF TECH/MF XTRA
- Compatible software: IZYTRONIQ

Art.-No. **GTT6500000R0001**



GTT6600

Measurements for testing the effectiveness of protective measures in low-voltage systems, for initial testing per IEC 60364 DIN VDE 0100, for periodic testing per DIN EN 50110 VDE 0105 and for battery powered earth resistance measurements

- Compatible hardware: PROFITEST MXTRA IQ/MPRO IQ, PROFITEST MF TECH/MF XTRA
- Compatible software: IZYTRONIQ

Art.-No. **GTT6600000R0001**



GTT1223IQ

IZYTRONIQ Basic course: Fundamentals of managing stationary objects in the user software

- Compatible hardware: –
- Compatible software: IZYTRONIQ

Art.-No. **GTT1223IQ0R0006**



GTT1225IQ

IZYTRONIQ Advanced course: Extended management of stationary objects in the user software

- Compatible hardware: –
- Compatible software: IZYTRONIQ

Art.-No. **GTT1225IQ0R0006**



GTT1515

Measurements for initial testing of electrical equipment at machinery per DIN EN 60204 VDE 0113

- Compatible hardware: PROFITEST PRIME/PRIME AC
- Compatible software: -

Art.-No. **GTT1515000R0001**



GTT1815

Measurements for periodic testing of electrical machines, machinery systems, and their electrical equipment in accordance with DIN VDE 0105 (based on DIN EN 60204 VDE 0113)

- Compatible hardware: PROFITEST MF XTRA / MF TECH / MXTRA IQ / MTECH+ IQ / MPRO IQ / MXTRA / MTECH+ / MPRO / INTRO / PRIME / PRIME AC
- Compatible software: -

Art.-No. **GTT1815000R0001**



GTT6700

Measurements for initial testing of electrical equipment at machinery per DIN EN 60204 VDE 0113

- Compatible hardware: PROFITEST PRIME/PRIME AC
- Compatible software: IZYTRONIQ

Art.-No. **GTT6700000R0001**



GTT6800

Measurements for periodic testing of electrical machines, machinery systems, and their electrical equipment in accordance with DIN VDE 0105 (based on DIN EN 60204 VDE 0113)

- Compatible hardware: PROFITEST MF XTRA/MF TECH/MXTRA IQ/MTECH+ IQ/MPRO IQ/PRIME/PRIME AC
- Compatible software: IZYTRONIQ

Art.-No. **GTT6800000R0001**



GTT1235

Measurements for testing electrical power generators, for periodic testing per DIN EN 50110 VDE 0105 and battery powered earth resistance measurements

- Compatible hardware: PROFiTEST MF XTRA/MF TECH/MXTRA IQ/MTECH+ IQ/MPRO IQ/MXTRA/MTECH+/MPRO/INTRO/PRIME/PRIME AC
- Compatible software: -

Art.-No. **GTT1235000R0001**



GTT1236AC

Measurements for testing the effectiveness of protective measures in the AC charging infrastructure, for initial testing in accordance with IEC 60364 DIN VDE 0100, and for periodic testing in accordance with DIN EN 50110 VDE 0105

- Compatible hardware: PROFITEST MF XTRA/MF TECH/MXTRA IQ/MTECH+ IQ/MPRO IQ/MXTRA/MTECH+/MPRO/INTRO/PRIME/PRIME AC
- Compatible software: -

Art.-No. **GTT1236AC0R0001**



GTT1236DC

Measurements for testing the effectiveness of protective measures in the DC charging infrastructure, for initial testing in accordance with IEC 60364 DIN VDE 0100, and for periodic testing in accordance with DIN EN 50110 VDE 0105

- Compatible hardware: PROFITEST PRIME/PRIME AC
- Compatible software: -

Art.-No. **GTT1236DC0R0001**



GTT1237

Measurements for testing Mode 2 IC-CPD and Mode 3 e-charging cables

- Compatible hardware: PROFITEST H+E CABLE
- Compatible software: -

Art.-No. **GTT1237000R0001**



GTT1910

Measurements for testing to verify the standards-compliant setup and periodic testing of photovoltaic systems in accordance with DIN VDE 0100-600 (IEC 60364), DIN VDE 0105-100, DIN VDE 0100-712 (EN 60364-7-712), and DIN VDE 0126-23-1 (EN 62446-1)

- Compatible hardware: SEAWARD PV:1525 / PV150, SEAWARD PV200, PROFITEST PVSUN / MF XTRA / MF TECH / MXTRA IQ / MPRO IQ / MTECH+ IQ
- Compatible software: -

Art.-No. **GTT1910000R0001**



GTT1920

Measurements for testing to verify the standards-compliant setup and periodic testing of photovoltaic systems in accordance with DIN VDE 0100-600 (IEC 60364), DIN VDE 0105-100, DIN VDE 0100-712 (EN 60364-7-712), and DIN VDE 0126-23-1 (EN62446-1) including recording the I-U curve tracing

- Compatible hardware: SEAWARD PV:1525-IV / PV200, PROFITEST MF XTRA / MF TECH / MXTRA IQ / MPRO IQ / MTECH+ IQ
- Compatible software: -

Art.-No. **GTT1920000R0001**



GTT1213

Measurements for testing the safety of electrical medical devices, for periodic testing, and after repairs in accordance with DIN EN 62353 VDE 0751

- Compatible hardware: SECUTEST S2N+/S2N+10/SIII+, SECULIFE ST HV
- Compatible software: -

Art.-No. **GTT1213000R0001**



GTT1413

Measurements for testing the safety of electrical medical devices, for periodic testing, and after repairs in accordance with DIN EN 62353 VDE 0751

- Compatible hardware: SECUTEST PRO IQ/ST PRO/PRO/SECULIFE ST BASE25/ST BASE
- Compatible software: -

Art.-No. **GTT1413000R0001**



GTT1713

Measurements for testing the safety of electrical medical devices, for periodic testing, and after repairs in accordance with DIN EN 62353 VDE 0751

- Compatible hardware: SECULIFE ST PRO
- Compatible software: -

Art.-No. **GTT1713000R0001**



GTT3012

Measurements for testing arc welding equipment, for periodic inspection and after repairs per DIN EN 60974-4 VDE 0544-4

- Compatible hardware: SECUTEST ST PRIME 25 A/PRO/PRO BT COMFORT/BASE, SECUTEST PRO IQ/BASE IQ
- Compatible software: -

Art.-No. **GTT3012000R0001**



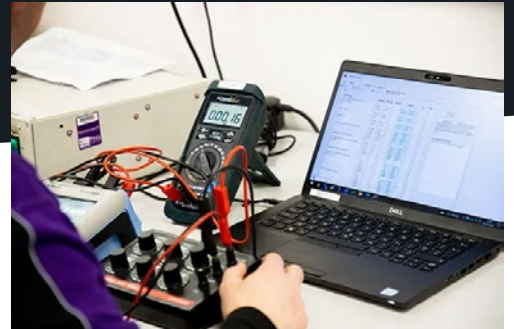
GTT1646

Monitoring of voltage quality in public supply networks per DIN EN 50160 as well as fault analysis with the HDPQ Plus, Mavowatt 230/240/270 power disturbance analyzers and DRAN-VIEW software

- Compatible hardware: HDPQ PLUS, MAVOWATT 230/240/270
- Compatible software: DRAN-VIEW

Art.-No. **GTT1646000R0001**

Calibrationhouse



Calibration, Maintenance and Repairs

As a manufacturer-independent calibration service and the exclusive authorized service provider for Gossen Metrawatt and all brands under GMC instruments - from Camille Bauer and Rigel Medical to Dranetz, Seaward, and Gossen - the service provider Calibrationhouse combines technical expertise with a comprehensive range of services.

Our laboratories are DAkkS- and UKAS-accredited and meet the requirements of DIN EN ISO/IEC 17025. That is how we can guarantee you reliable measurement results, maximum precision, and full audit compliance.

With METRACHECK and our structured service packages, your measuring technology will be ready for use at all times - economically, predictably, and reliably.

In our modern calibration laboratory in Nürnberg, digital processes and standards-compliant quality assurance ensure maximum transparency and efficiency. We are built on over 119 years of experience in the calibration and maintenance of electrical test equipment.

As a result, you can be sure that your test equipment is always ready for use, minimize downtime, and maximize reliability during operations.

Contents

9 - 3 Services



Calibrationhouse – Your service partner

For calibration, maintenance, and more

As a manufacturer-independent calibration service and the exclusive authorized service provider for Gossen Metrawatt and for all brands under GMC instruments – from Camille Bauer and Rigel Medical to Dranetz, Seaward, and Gossen – the service provider Calibrationhouse combines technical expertise with a comprehensive range of services.

Our laboratories are DAkkS- and UKAS-accredited and meet the requirements of DIN EN ISO/IEC 17025. That is how we can guarantee you reliable measurement results, maximum precision, and full audit compliance.

Calibrationhouse offers industry-specific solutions for:

- + Industry and manufacturing
- + Automotive and mobility
- + Medical technology
- + Energy supply
- + Test laboratories and measurement technology

Our cross-manufacturer services

<p>✓ Straightforward commissioning Our clearly structured job and order process takes you step-by-step through the commissioning process – fast, transparent, and without any unnecessary effort.</p>	<p>✓ DAkkS calibration and factory calibration Precise, standards-compliant calibration of electrical and optical variables, as well as official calibrations – traceable, audit-proof, and including function test.</p>
<p>✓ Test equipment management and digitalization Digital management with IZYCHECK.IQ – including calibration reminders, status messages, and direct certificate download.</p>	<p>✓ Rental instruments Minimize downtimes and optimize peak workloads with our flexibly rentable instruments.</p>
<p>✓ DGUV V3 tests As an add-on we can conduct these tests of electrical equipment in our Service Center – legally secure, documented, and compliant with health and safety regulations.</p>	<p>✓ On-site calibration Elimination of shipping costs and risk with minimal downtime. We conduct factory calibrations on your premises as part of a straightforward process. Find out more now.</p>

Additional services for GMC Instruments products

<p>✓ Reliable repair and maintenance Rapid, reliable repairs, adjustment, and testing of all GMC Instruments products according to manufacturer and standards specifications.</p>	<p>✓ Updates and upgrades Regular firmware and software updates and upgrades keep your GMC Instruments products up to date and ready to use.</p>
<p>✓ Convenient online ordering You can order meters, accessories, and original replacement parts directly from our IZYCHECK.IQ marketplace.</p>	<p>✓ Service packages and individual agreements Make sure your instruments are always ready to use and leverage VIP advantages. Together with you, we will find the optimum solution for you.</p>



METRACHECK 36

Service package for PROFITEST and SECUTEST with a term of 36 months

- All-in-one coverage: repair, adjustment, calibration, and final testing included
- Guaranteed 7-day processing: Back in service quickly - without long downtimes
- Optimized life cycle costs: fixed service costs for the entire service life
- Efficient test equipment management: The IZYCHECK.IQ portal gives you a clear overview - including a reminder service
- Maximum operational readiness: firmware updates, battery packs, and buffer batteries included

Art.-No. **Z400B**



METRACHECK 60

Service package for PROFITEST and SECUTEST with a term of 60 months

- All-in-one coverage: repair, adjustment, calibration, and final testing included
- Guaranteed 7-day processing: Back in service quickly - without long downtimes
- Optimized life cycle costs: fixed service costs for the entire service life
- Efficient test equipment management: The IZYCHECK.IQ portal gives you a clear overview - including a reminder service
- Maximum operational readiness: firmware updates, battery packs, and buffer batteries included

Art.-No. **Z400D**



IZYCHECK.IQ CLOUD SERVICES

Professional, secure, and state-of-the-art job and test equipment management

- Detailed view for each individual piece of test equipment incl. order status in real time.
- Immediate, legally secure provisioning of calibration certificates, verification certificates, and other documents.
- IZYCHECK.IQ marketplace for convenient ordering of instruments, accessories, and replacement parts.
- Reminders and management of upcoming calibrations in the actual calibration interval.

Art.-No. **S110ZZ**



Calibrationhouse – The on-site calibration service

For your electrical measuring and test instruments

As a manufacturer-independent calibration service and the exclusive authorized service provider for Gossen Metrawatt and all brands under GMC Instruments, Calibrationhouse brings decades of calibration expertise straight to you.

Our on-site calibration helps you reduce downtimes, avoid transport and administration costs while ensuring standards-compliant, documented results – efficient, flexible, and audit-proof.

Our experienced calibration technicians calibrate your electrical measuring and test instruments directly at your location – precisely in accordance with ISO specifications (factory calibration). Providing you with maximum process reliability with minimal downtime.

Your on-site advantages

✓ Minimum downtime

You cannot get any less downtime!
Within no time at all, your test equipment is ready to use again.

✓ Elimination of shipment and risk

Your instruments remain safely on your premises even during the calibration and you have no risk, wasted time, or administrative costs whatsoever.

✓ Time and resource savings

You commission us, we look after the rest. Our qualified personnel looks after the planning and implementation through to complete documentation of the calibrations.

✓ Personalized specialist advice

Together with your personal contact, we will find the best solution for your calibration requirements. Whether at your location or in our accredited laboratory.

✓ Manufacturer-independent and flexible

We calibrate instruments from various manufacturers/brands – efficiently as part of a single appointment.

✓ Standards-compliant calibration

Compliant with ISO 9001, documented, and traceable including calibration certificate.

✓ Replacement of wear parts

If necessary and if possible, we replace common wear parts such as fuses and batteries directly.

✓ Fast response time

Thanks to global expertise, local presence of our specialist personnel, and a fleet of fully equipped on-site vans.



Our manufacturer-independent on-site service portfolio

Test instruments and safety testers

- + Safety testers and safety analyzers
- + Machinery, systems, and installation testers
- + PAT testers
- + DGUV and VDE test instruments
- + Test instruments for stationary electrical systems

Other electrical meters

- + Digital and analog multimeters
- + Handheld and benchtop multimeters
- + Clamp meters/current clamps
- + Voltage testers
- + Data loggers
- + Power analyzers

Our electrical on-site measured quantities

- + Direct and alternating current
- + Direct and alternating voltage
- + Ohmic resistance
- + Time and frequency

Manufacturers and brands that we calibrate

- | | | |
|--------------------|-----------------|-----------------|
| + Beha-Amprobe | + Hioki | + Safetytest |
| + Benning | + Keithley | + Seaward |
| + Camille Bauer | + Keysight | + Uni-T |
| + Chauvin Arnoux | + Megger | + Voltcraft |
| + Dranetz | + Metrel | + Yokogawa |
| + Flir | + PCE | + and many more |
| + Fluke | + PeakTech | |
| + Gossen Metrawatt | + Rigel Medical | |

Worldwide our in-house laboratories are DAkkS- and UKAS-accredited and meet the requirements of DIN EN ISO/IEC 17025. Both at your location and in our laboratories, we guarantee for you reliable measurement results, maximum precision, legal certainty, and full auditability.

Details of on-site calibration:



Find out more now, get in touch, and we will be happy to advise you.

Your direct route to calibration, maintenance, and service

Call us or use our digital services at
www.calibrationhouse.com

Contact us personally: Mon.–Thurs. 8:00 a.m. – 4:30 p.m. • Fri. 8:00 a.m. – 1:00 p.m.

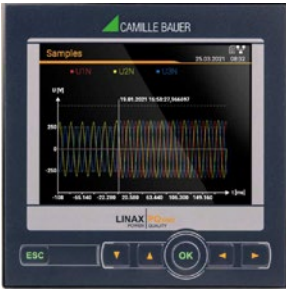
Power Quality



A stable power quality is essential for electrical systems to operate safely. Our power quality solutions provide proof of compliance with international standards such as EN 50160 or IEEE 519 and enable targeted fault analysis and condition monitoring. With certified Class A or Class S meters, power quality parameters are displayed transparently and can be traced. In addition, our Power Quality as a Service (PQaaS) concept offers customized solutions for integration into operational ecosystems.

Contents

- 10 - 2 Stationary Measurement Technology
- 10 - 4 Mobile Measurement Technology

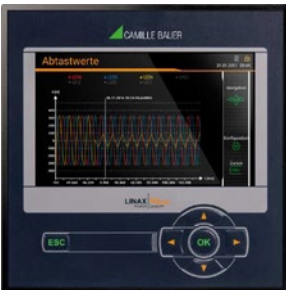


LINAX PQ1000

Stationary PQ measurement technology in class S as front panel mounting (96 x 96 mm).

- Independent certification according to IEC 62586-2:2017+AMD1:2021 (functional tests) by the Swiss Federal Institute of Metrology METAS, Independent certification according to IEC 61000-4-30:2015+AMD1:2021, Class S
- Support of the standardized, manufacturer-independent PQDIF format according to IEEE 1159.3
- Adjustable event recording duration
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Event display via website with time zoom and value reading
- Average power values with trend analysis to avoid load peaks
- Load profile storage with fluctuation bandwidth (min/max) per interval
- Active energy class (IEC 62053-22:2003) 0.2S (/5A), reactive energy class (IEC 62053-24:2014) 0.5S
- Further average values and counters with selectable base size

For ordering details, please see the website and [configurator](#)



LINAX PQ3000

Stationary power quality measurement technology in class A as front panel mounting (144 x 144 mm).

- Independent certification acc. IEC 62586-2 by Federal Institute of Metrology METAS
- Support for standardized, manufacturer independent PQDIF format acc. IEEE 1159.3
- Definable event recording duration
- Event display via website with time zooming function and reading of values
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Power mean-values with trend-analysis for preventing load-peaks
- Load profile storage with fluctuation range (min/max) per interval
- Active energy class 0.2S, Reactive energy class 0.5S (HT/LT, demand/delivery), configurable resolution
- Further mean-values and meters with selectable base quantity

For ordering details, please see the website and [configurator](#)



LINAX PQ5000

Stationary PQ measurement technology in class A as top-hat rail mounting.

- Independent certification acc. IEC 62586-2 by Federal Institute of Metrology METAS
- Support for standardized, manufacturer independent PQDIF format acc. IEEE 1159.3
- Definable event recording duration: Up to 6 seconds for samples and 3 minutes for RMS values
- Event display via website with time zooming function and reading of values
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Power mean-values with trend-analysis for preventing load-peaks
- Load profile storage with fluctuation range (min/max) per interval
- Active energy class 0.2S, Reactive energy class 0.5S (HT/LT, demand/delivery), configurable resolution
- Further mean-values and meters with selectable base quantity

For ordering details, please see the website and [configurator](#)



LINAX PQ5000CL

Scalable PQ measurement system for up to 10 outputs, can be installed without shutting down the system

- Metrologically certified PQI according to IEC 61000-4-30 Ed. 3 Class A
- A scalable system for load and efficiency management for up to 10 channels (32 conductors)
- Outputs with 3 or 4 conductors (3P/3PN Current Link modules)
- Conformity reporting and event display via PQEasy reporting via web browser (e.g., according to EN 50160)
- Fault recording of voltage events
- Time-synchronous load management for U/I/P/Q/PF
- Current measurement per current channel up to 20,000 A
- Grid tariff meters P & Q (consumption & supply)
- Low space requirements & low wiring effort based on scalable current sensors
- Retrofitting can be carried out without shutting down the system
- Current values are time-synchronous with voltage (IEC 61000-4-30)
- Current sampling rate 54 kHz

For ordering details, please see the website and [configurator](#)



LINAX PQ5000-Rack

Power Quality Monitoring in the Electrical System on a 19" Rack in Accordance with EN 60297

- Metrologically certified PQI according to IEC 61000-4-30 Ed. 3, Class A
- Analysis of two heavy current systems (e.g. double busbar, transformer)
- Optional data transmission via mobile network and synchronization via GPS
- Current measurement via current transformer (5 A) or small-signal sensors (< 3 V)
- Extended fault recording via 12 (24) time-synchronized digital inputs
- Compliant with ENEL GSTQ001, GSTQ002, GSTQ009

For ordering details, please see the website and [configurator](#)



LINAX PQ5000-Mobile

Class A mobile power quality measurement technology

- Automated evaluation of harmonic emissions (e.g., according to DACHZ Ed. 3, IEEE519, DTR, IEE1547, GB/T, etc.)
- Automated fault recording according to IEC61000-4-30 Ed. 3, Class A (metrologically certified)
- Automated conformity assessment of power quality (e.g., according to EN50160, GB/T, IEEE519, customer-specific, etc.)
- Automated energy flow analysis with recording of load profiles, short-term load peaks, and meter values
- Current measurement with Rogowski coils or current clamps
- Easy operation without additional software (directly on the device or via integrated WebGUI)
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Configuration manager for up to 20 measurement locations
- Any number of campaigns per measurement location
- Delimitation of individual campaigns by starting/stopping the recording
- Average power values with trend analysis to avoid load peaks
- Load profile storage with fluctuation range (min/max) per interval
- Active energy class (IEC 62053-22:2003) 0.2S, reactive energy class (IEC 62053-24:2014) 0.5S
- Additional average values and meters with selectable base size

For ordering details, please see the website and [configurator](#)



LINAX® PQ5000MOBCL

Mobile power quality measurement technology with multichannel load analysis for grid level 7 (low voltage)

- Portable PQI with multi-channel load flow analysis according to IEC 61000-4-30 Ed. 3 Class A
- Comprehensive PQ analysis for all voltages
- Metrological certification IEC 61000-4-30 by METAS in accordance with IEC62586-2
- Integrated WebGUI as HMI, including comprehensive cyber security (OT) & cyber protection
- Hard-shell case with IP65 rating when closed
- Safety requirement 600V CAT IV (measurement inputs current & voltage)
- 36 current measurement inputs per device (9 x L1/L2/L3/N) Fault recorder for voltage events: RMS $\frac{1}{2}$ values and waveform recording of all voltages
- Comprehensive load profile recording of all outputs
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Evaluation via PQIS® possible

For ordering details, please see the website and [configurator](#)



PQ5000-Mobile Current-Link Multi-PQ

Multichannel power quality and load flow for network level 7 (low voltage).

- Portable multi-channel PQ measuring device in accordance with IEC 61000-4-30 Ed. 3, Class A
- Comprehensive PQ analysis for all voltages and currents
- Metrological certification IEC 61000-4-30 by METAS in accordance with IEC62586-2
- Integrated WebGUI as HMI, including comprehensive cyber security (OT) and cyber protection
- Hard-shell case with IP65 rating when closed
- Safety requirement 600V CAT IV (measurement inputs current & voltage)
- 36 current measurement inputs per device (9 x L1/L2/L3/N)
- Fault recorder for current and voltage events: RMS $\frac{1}{2}$ values of all voltages and up to 36 currents as well as waveform recording of the voltages
- Analysis of harmonics/interharmonics for all 4 currents of each current module, display and evaluation via the device's web interface
- Comprehensive load profile recording of all outputs
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Evaluation via PQIS® possible

For ordering details, please see the website and [configurator](#)



HDPQ PLUS

Class A power quality analyzer series with touchscreen, transient recorder (up to 1 μ s) and the option of 400 Hz monitoring!

- Visa, Guide, Xplorer and Xplorer400 versions.
- Tests both 50 Hz / 60 Hz and 400 Hz networks - for specialized aviation, marine, military and other applications
- 1 MHz sampling for transients up to 2000 Vpeak
- IEC 61000-4-30 Class A (certificate)
- Supraharmonics up to the 127th order
- Power/energy analysis Class 0.2S
- 7-inch color touch LCD for direct on-site analysis
- Power Quality Analysis Software Dran-View 7 included
- Ethernet communication for remote control and data download

For ordering details, please see the website and [configurator](#)

Power Monitoring



Power monitoring provides the basic information for stable grid management and intelligent energy monitoring. Our transducers for voltage, current, power, and frequency deliver precise real-time data and synchronized mean values for smart grid applications. This lays the foundation for transparent, resilient, and future-proof energy systems- from industries and energy utilities to operators of critical infrastructures.

Contents

- 11-2 Multifunctional Front Panel
- 11-4 Multifunctional Top-hat Rail
- 11-7 Unifunctional Top-hat Rail



SINEAX AM1000

Transparent power quality and energy consumption monitoring

- Monitoring of the grid status and grid unbalance
- Harmonics analysis according to IEC 61000-4-7
- Limit value monitoring with alarm
- Universal process I/O
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Device parameterization via WEB browser
- Cyber Security (OT) / Cyber Protection
- This device is suitable for energy flow analysis
- Average power values with trend analysis to avoid load peaks
- Load profile storage with fluctuation bandwidth (min/max) per interval
- Active energy class (IEC 62053-22:2003) 0.5S, reactive energy class (IEC 62053-24:2014) 0.5S
- Other average values and counters with selectable base size

For ordering details, please see the website and [configurator](#)



SINEAX AM3000

Transparent power quality and energy consumption monitoring

- Monitoring of the grid status and grid unbalance
- Harmonics analysis according to IEC 61000-4-7
- Limit value monitoring with alarm
- Universal process I/O
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Device parameterization via WEB browser
- Cyber Security (OT) / Cyber Protection
- This device is suitable for energy flow analysis
- Average power values with trend analysis to avoid load peaks
- Load profile storage with fluctuation bandwidth (min/max) per interval
- Active energy class (IEC 62053-22:2003) 0.2S, reactive energy class (IEC 62053-24:2014) 0.2S
- Other average values and counters with selectable base size

For ordering details, please see the website and [configurator](#)



APLUS

Multifunctional Power Monitor with System Analysis

- Comprehensive grid analysis
- Accuracy of $\pm 0.1\%$ for current/voltage, $\pm 0.2\%$ for power
- Particularly fast response times for measured values < 100 ms
- Configurable measurement times in the range of 2...1024 cycles
- Extensive bus interfaces for measurement data communication (Modbus RTU / Modbus TCP / Profibus DP)
- Event logging
- Panel-mounted device in 96 x 96 mm and DIN rail device.

For ordering details, please see the website and [configurator](#)



SIRAX BM1450

Multifunctional DC power indicators programmable for current, voltage, active, reactive, and apparent power, active and reactive energy

- Multi-channel support
- Bidirectional voltage and current measurement
- On-site configuration
- Various relay functions possible (limit switch, pulse output, timer)
- DC power measurement
- Monitoring and control of circuit breakers

For ordering details, please see the website and [configurator](#)



SIRAX BM1250

Multifunctional measuring transducer and power monitoring device

- Wide range of functions for measuring voltage, current, power, energy, and quality
- Various integrated relay functions (pulse output for energy measurement, limit value output, timer function, RTC relay output)
- Built-in 8MB flash data logger (event logging, time logging, load profile logger)
- On-site configuration (configuration possible via push buttons, USB interface, or RS485/Modbus RTU)
- Easy integration into higher-level systems thanks to open communication via Modbus RTU RS485 interface with Modbus/RTU protocol

For ordering details, please see the website and [configurator](#)



SIRAX BM1400

Programmable measuring unit for high-current quantities with display, LED

- Clear and unambiguous display of measured values with LED display
- Simple on-site operation and parameterization
- Automatic cyclic scrolling of measurement data
- Integrated active and reactive energy meters

For ordering details, please see the website and [configurator](#)



SINEAX DM5000

Stationary power monitoring measurement technology for DIN rail mounting (160 x 110 mm)

- Provision of all voltages, currents, powers, power factors every 10/12 cycles
- Extended reactive power analysis
- Variance of system variables with time reference
- Power mean-values with trend-analysis for preventing load-peaks
- Optional PME control center: PME sensors for recording up to 100 currents via radio signal
- Load profile storage with fluctuation range (min/max) per interval<L li>
- Active energy class 0.2S, Reactive energy class 0.5S (HT/LT, demand/delivery), configurable resolution
- Further mean-values and meters with selectable base quantity
- Harmonic analysis acc. IEC 61000-4-7
- Assessment of voltage and current imbalance
- Phasor and phase sequence display for connection check
- Optional disturbance recorder for PQ events (voltage dip, swell, interruption) acc. IEC 61000-4-30 Ed.3 with RMS1/2 and waveform recordings

For ordering details, please see the website and [configurator](#)



SINEAX CAM

Universal measuring device for high-current quantities with particularly fast response times and a wide mains frequency range

- Response times of less than 50 ms
- Configurable measurement intervals from 1 period upwards
- Also suitable for phase angle control
- I/O interfaces for individual control
- 8 freely configurable analog outputs
- Configuration and measurement value query via USB and Modbus interface (RS485)
- Recording of minimum and maximum values with time stamp
- Internal energy meters for the measured network or external variables
- External display SINEAX A20 available
- For DIN rail mounting

For ordering details, please see the website and [configurator](#)



SINEAX DM5S

Stationary universal measuring device for high-voltage power grids for DIN rail mounting

- Power grid status monitoring: Class 0.2
- Universal: U/I, P/Q/S, f, PF, etc.
- Remote communication via Modbus
- Energy measurement: Class 0.5S
- Configuration even without auxiliary power
- Certifications: UL

For ordering details, please see the website and [configurator](#)



SINEAX DM5F

Stationary universal measuring device for high-voltage power networks for DIN rail mounting with particularly fast response time

- Settling time 15-25 ms
- Power grid status monitoring: Class 0.2
- Universal: U/I, P/Q/S, f, PF, etc.
- Remote communication via Modbus
- Configuration even without auxiliary power
- Certifications: UL

For ordering details, please see the website and [configurator](#)



SINEAX V604s

Measuring Transducer for Temperature and DC Quantities, 2 Inputs

- Integrate signals (DC energy meter)
- Amplify signals and transmit them with virtually no loss
- Adjust and convert signals (e.g., user-specific characteristic curves, stored characteristic curves for TC, RTD, horizontal cylindrical tank)
- Safe measurement and evaluation (basic accuracy 0.1%)
- Remote I/O functionality
- Monitoring limit values
- Communication (MODBUS RTU, analog outputs, relay outputs, digital output)

For ordering details, please see the website and [configurator](#)



SIRAX BT5700 440V 5/1A 100-250VAC/DC 485

Programmable transducer for heavy current variables

- For DIN rail mounting with backlit LCD display
- Easy on-site operation and parameterization
- Automatic cyclic scrolling of measurement data
- Integrated active and reactive energy meters

For ordering details, please see the website and [configurator](#)



SIRAX MT7000

AC/DC Current and voltage converter

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Common current and voltage transformers, Rogowski coils and temperature sensors can be connected
- Configuration by configuration software
- Measured variables: Energy & power values
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX MT7050

AC/DC Current and voltage converter

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Common current and voltage transformers, Rogowski coils and temperature sensors can be connected
- Configuration by configuration software
- Measured variables: Energy & power values and extended grid parameters
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX BT70x0

AC/DC Current transformer with transmitter functionality: Measurement range 50 A AC/DC

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Galvanic separation from the measuring circuit
- Configuration by means of configuration software
- Serial RS485 Modbus/RTU output and analogue 0...10 V or 4...20 mA output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX BT5100

Transducer for AC voltage

- Connection type single-phase (voltage)
- 2 configurable analog outputs linear or with kink in a range of 0/4...20 mA, 0/2...10 V
- Quick on-site programming using push buttons or via software
- Simple device operation on site
- Clear and easy-to-read display of measurement data via LCD display
- Flexible communication and remote reading via integrated
- Modbus RTU interface
- DIN rail mounting
- Basic accuracy 0.2%

For ordering details, please see the website and [configurator](#)



SIRAX BT5200

Transducer for AC Current

- Connection type single-phase (current)
- 2 configurable analog outputs linear or with kink in a range of 0/4...20 mA, 0/2...10 V
- Quick on-site programming using push buttons or via software
- Easy device operation on site
- Clear and easy-to-read display of measurement data via LCD display
- Flexible communication and remote reading via integrated Modbus RTU interface
- DIN rail mounting
- Basic accuracy 0.2%

For ordering details, please see the website and [configurator](#)



SIRAX BT5210

Transducer for AC current - Self-powered

- Arithmetic mean value measurement Calibration to RMS with sine waveform (mean value)
- Accuracy class 0.5 according to international standard IEC/EN 60688
- Own auxiliary power supply
- Individual isolated DC currents or DC voltage outputs
- Output response time < 200 ms
- Quick and easy installation on DIN rail, on a wall, or in a control panel with optional screw hole mounting

For ordering details, please see the website and [configurator](#)



SIRAX BT5300

Measuring Transducer for Frequency

- Single-phase connection (frequency)
- 2 configurable analog outputs, linear or with kink, in a range of 0/4...20 mA, 0/2...10 V
- Quick on-site programming using push buttons or via software
- Easy device operation on site
- Clear and easy-to-read display of measurement data via LCD display
- Flexible communication and remote reading via integrated Modbus RTU interface
- DIN rail mounting
- Basic accuracy 0.2%

For ordering details, please see the website and [configurator](#)



SIRAX BT5400

Transducers for power, phase angle, and power factor

- Connection type single-phase; or 3-phase 3-wire balanced or unbalanced; or 3-phase 4-wire balanced or unbalanced
- Measuring input for power
- Rated voltage up to 500 V, rated current 1/5 A
- 2 configurable analog outputs, linear or with a kink and one unipolar range from 0...20 mA/4...20 mA or 0...10 V, or bipolar from -20...0 mA or -10...0...+10 V
- Rapid on-site programming by means of pushbuttons or via software
- Simple on-site instrument operation
- Clear and easy-to-read display of measured data on LCD display
- Flexible communication and remote read-out via integrated Modbus-RTU interface
- DIN top-hat rail mounting
- Basic accuracy 0.2%, basic accuracy phase angle, power factor 0.5%

For ordering details, please see the website and [configurator](#)



SIRAX BT5600

Programmable Tap Position Transducer

- Input measuring range can be programmed using PC /Simplifies project planning and engineering (the final range can be determined during commissioning)
- Electrically isolated Dual outputs
- Tap number is programmable from 1 to 100 using software
- Tap position is displayed on front LED display
- Analogue output signal also programmed using the PC (impressed current or superimposed voltage for all ranges between - 20 and + 20 mA DC resp. - 12 and + 15 V DC)
- Galvanic and optical isolation between Power supply, Input and outputs
- 3,4 wire measurement to compensate lead resistance automatically
- 2 wire measurement with lead resistance compensation through software

For ordering details, please see the website and [configurator](#)

Energy Management



Efficient energy management is the foundation for sustainable and economical use of electrical energy. Our systems enable precise recording and analysis of high-resolution energy data - including MID-compliant billing. Through strategic planning, monitoring, and optimization of energy flows, it is possible to improve efficiency, reduce costs, and sustainably lower CO₂ emissions. With integrated functions for energy controlling and load management, our solutions support the targeted analysis and optimization of energy consumption and grid utilization - for example, in industry, production facilities, or data centers.

Contents

- 12 - 2 Energy Meters (MID-certified)
- 12 - 4 Energy Meters
- 12 - 5 Energy Data Logger
- 12 - 6 Load Optimization



ENERGYMID LPWAN

Energy Meters supporting the LoRaWAN® Protocol

- Multifunctional energy meter with MID certification for direct connection (80 A) or converter connection (1 - 5(6) A)
- Integrated radio interface based on the LoRaWAN® standard in a compact 4 TE housing
- Universal use thanks to versions for 2-, 3- and 4-wire networks and 100/110 V, 230 V and 400 V rated voltage
- Cost-effective installation due to elimination of communication cables and time-saving integration into existing LoRaWAN® networks
- No battery change necessary as the interface is powered by the measurement voltage
- Function update of the interface via FUOTA - 4 Quadrant measurement: energy input and output
- Acquisition of THD for current and voltage as well as neutral conductor current I_N
- Simple and time-synchronized energy data acquisition for load profiles and billing

For ordering details, please see the website and [configurator](#)



ENERGYMID TCP/IP

Multifunctional Energy Meter with Modbus TCP Interface

- Multifunctional energy meter with MID certification for direct connection (80 A) or transformer connection (1 - 5(6) A)
- Ultra-compact 4 HP (72 mm) design with Ethernet interface and Modbus TCP and BACnet IP protocol
- Quasi online values thanks to fast data transmission via Ethernet
- Universal use thanks to versions for 2-, 3- and 4-wire networks and 100/110 V, 230 V and 400 V rated voltage
- Easy data access via integrated web server and ENERGYMID tool
- Future-proof and secure thanks to firmware updates - even for meters installed in the field
- Optionally with integrated meter reading cycle as a data buffer for high data quality
- 4 Quadrant measurement: energy consumption and output
- Recording of THD for current and voltage as well as neutral conductor current I_N for transparency in the electrical grid

For ordering details, please see the website and [configurator](#)



ENERGYMID TCP/IP (PTB-A 50.7)

Energy Meters with Certified Load Profile per PTB-A 50.7

- Multifunctional energy meter with MID certification for direct or transformer connection and 2, 3 or 4-wire systems (type-dependent)
- Certified load profile per PTB-A 50.7
- Extremely compact design (4 standard width units = 72 mm) with integrated interface
- 4-quadrant measurement: energy import and export
- Communication via Modbus TCP
- Acquisition of THD for current and voltage, as well as for neutral conductor current I_N

For ordering details, please see the website and [configurator](#)



ENERGYMID M-BUS

Multifunctional Energy Meter with M-Bus Interface

- Multifunctional energy meter with MID certification for direct connection (80 A) or transformer connection (1 - 5(6) A)
- Communication: M-Bus in compact 4 TE housing
- Universal use thanks to versions for 2-, 3- and 4-wire networks and 100/110 V, 230 V and 400 V rated voltage
- 4 quadrant measurement: energy input and output
- Detection of THD for current and voltage as well as neutral conductor current I_N
- Safe installation thanks to display of installation errors

For ordering details, please see the website and [configurator](#)



ENERGYMID MODBUS RTU

Multifunctional Energy Meter with MODBUS RTU Interface

- Multifunctional energy meter with MID certification for direct or transformer connection as well as 2-, 3- or 4-wire networks (depending on type)
- Integrated RS-485 interface with Modbus RTU protocol
- Universal use thanks to versions for 2-, 3- and 4-wire networks and 100/110 V, 230 V and 400 V rated voltage
- 4 quadrant measurement: energy input and output
- Detection of THD for current and voltage as well as neutral conductor current I_N
- Safe installation thanks to display of installation errors

For ordering details, please see the website and [configurator](#)



ENERGYMID S0 IMPULS

Multifunctional Energy Meter with S0 Pulse Interface

- Multifunctional energy meter with MID certification for direct connection (80 A) or transformer connection (1 - 5(6) A)
- Ultra-compact 4 HP (72 mm) design with integrated S0 pulse interface
- Universal use thanks to versions for 2-, 3- and 4-wire networks and 100/110 V, 230 V and 400 V rated voltage
- 4 quadrant measurement: energy input and output
- Detection of THD for current and voltage as well as neutral conductor current I_N
- Safe installation thanks to display of installation errors

For ordering details, please see the website and [configurator](#)



SIRAX BT72x0

AC/DC current transformer with energy meter functionality: Input range current 50 A AC/DC

- Break-resistant plastic housing made of PBT
- flame retardant and self extinguishing according to UL94 V0
- Bidirectional energy measurement
- Max. current range up to 50 A AC/DC
- Max. voltage range up to 800 VAC / 1000 VDC
- Galvanic separation from the measuring circuit
- Configuration by configuration software
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX BT73x0

AC/DC current transformer with energy meter functionality: Input range current 300 AAC / 400 VDC Input range

- Break-resistant plastic housing made of PBT
- flame retardant and self extinguishing according to UL94 V0
- Bidirectional energy measurement
- Max. current range up to 300 AAC / 400 ADC
- Max. voltage range up to 800 VAC / 1000 VDC
- Galvanic separation from the measuring circuit
- Configuration by configuration software
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX MT7100

Three-phase meter

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Standard current inputs 1/5A, 333mV, and Rogowski inputs
- Configuration by configuration software
- Measured variables: Energy & power values
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SIRAX MT7150

Three-phase meter

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Standard current inputs 1/5A, 333mV, and Rogowski inputs
- Configuration by configuration software
- Measures: Energy & power values and extended grid parameters
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position

For ordering details, please see the website and [configurator](#)



SU1604

Modular summator for recording digital and analog variables.

- Energy data logger as a central device for recording digital and analog variables.
- Modular concept consisting of base station (SU1604), power supply unit (SU1614), SO input modules (SU1624) and analog input modules (SU1634).
- Up to 64 inputs can be used physically or as calculation channels to determine energy, power and costs.
- Energy Control Language (ECL) for programming evaluations, monitoring and optimization.
- High energy data quality at minute intervals for precise analyses and load profiles in conjunction with METRAVIEW thanks to automatic re-reading in the event of a communication failure.
- High performance with minute-by-minute readout through prioritization and use of the ECL via Ethernet (TCP/IP).
- ECL via Ethernet (TCP/IP) enables the summator to be used deep in the field.
- Parallel access via Ethernet for trouble-free reparameterization during operation.

For ordering details, please see the website and [configurator](#)



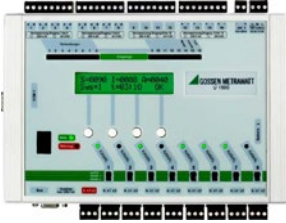
METSyS EU-Stromlogger-Kit

4 Phase AC current logger

- Current measurement (3 phases and N)
- Easy parameterisation in the app or directly on the measuring device
- Recording of min., max., peak and true effective values
- Display via app (iOS, Android) or on the screen
- Data transfer via email or USB stick
- Load profile studies to determine energy saving potential:
 - + ESOS (Energy Savings Opportunity Scheme)
 - + SECR (Streamlined Energy and Carbon Reporting)
 - + UK Building Regulations - Part L (Fuel and Energy Savings)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



U1500

Optimization System for Load Management

- Minimal interference in the production process thanks to combined trend-extrapolation process
- Can be expanded in steps for 8 to 64 optimizing channels
- Simultaneous optimization of various media, e.g. electrical power and gas
- Future oriented setpoint management with specifications of the load profile for 7 days with 96 values each
- Inputs for operating feedback from the consumers
- Takes minimum and maximum making and breaking times of the power consumers into consideration
- Special control programs for kitchen optimization
- 3 Years Warranty
- Made in Germany

For ordering details, please see the website and [configurator](#)

Smart Grid



Smart grids require precise measurement, secure communication, and flexible control. Our smart grid solutions enable end-to-end collection, analysis, and real-time monitoring of energy flows – from the feed-in point to the power consumer. With Class A meters, synchronized data, and open communication protocols, they create transparency and stability in today's energy systems and form the foundation for efficient, future-proof grid management and compliance with legal requirements.

Contents

13 - 2 Monitoring for Grid Level 7 (Low Voltage)



SmartGrid-Box

Scalable smart metering systems in field housing for use in low voltage distribution stations

- Measurement variants for power and event recording (SINEAX® DM5000)
- Measurement variant for performance and power quality according to class A (LINAX® PQ5000)
- Measurement variant for high performance and power quality according to class A (LINAX® PQ5000CL)
- Combined PV control and measurement variant with (CENTRAX® CU5000)
- Main current measurement via integrated Rogowski sensors
- Current measurement per outgoing circuit as an option with Current Link sensors (High Performance) or PME sensors (Wireless)
- Data transfer via gateway, LTE router, Ethernet
- Comprehensive integrated cyber protection already at field level
- Fully assembled and wired in the field housing

For ordering details, please see the website and [configurator](#)



LINAX PQ5000CL

Scalable PQ measurement system for up to 10 outputs, can be installed without shutting down the system

- Metrologically certified PQI according to IEC 61000-4-30 Ed. 3 Class A
- A scalable system for load and efficiency management for up to 10 channels (32 conductors)
- Outputs with 3 or 4 conductors (3P/3PN Current Link modules)
- Conformity reporting and event display via PQEasy reporting via web browser (e.g., according to EN 50160)
- Fault recording of voltage events
- Time-synchronous load management for U/I/P/Q/PF
- Current measurement per current channel up to 20,000 A
- Grid tariff meters P & Q (consumption & supply)
- Low space requirements & low wiring effort based on scalable current sensors
- Retrofitting can be carried out without shutting down the system
- Current values are time-synchronous with voltage (IEC 61000-4-30)
- Current sampling rate 54 kHz

For ordering details, please see the website and [configurator](#)



PQ5000-Mobile Current-Link Multi-PQ

Multichannel power quality and load flow for network level 7 (low voltage).

- Portable multi-channel PQ measuring device in accordance with IEC 61000-4-30 Ed. 3, Class A
- Comprehensive PQ analysis for all voltages and currents
- Metrological certification IEC 61000-4-30 by METAS in accordance with IEC62586-2
- Integrated WebGUI as HMI, including comprehensive cyber security (OT) and cyber protection
- Hard-shell case with IP65 rating when closed
- Safety requirement 600V CAT IV (measurement inputs current & voltage)
- 36 current measurement inputs per device (9 x L1/L2/L3/N)
- Fault recorder for current and voltage events: RMS½ values of all voltages and up to 36 currents as well as waveform recording of the voltages
- Analysis of harmonics/interharmonics for all 4 currents of each current module, display and evaluation via the device's web interface
- Comprehensive load profile recording of all outputs
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Evaluation via PQIS® possible

For ordering details, please see the website and [configurator](#)



LINAX® PQ5000MOBCL

Mobile power quality measurement technology with multichannel load analysis for grid level 7 (low voltage)

- Portable PQI with multi-channel load flow analysis according to IEC 61000-4-30 Ed. 3 Class A
- Comprehensive PQ analysis for all voltages
- Metrological certification IEC 61000-4-30 by METAS in accordance with IEC62586-2
- Integrated WebGUI as HMI, including comprehensive cyber security (OT) & cyber protection
- Hard-shell case with IP65 rating when closed
- Safety requirement 600V CAT IV (measurement inputs current & voltage)
- 36 current measurement inputs per device (9 x L1/L2/L3/N) Fault recorder for voltage events: RMS $\frac{1}{2}$ values and waveform recording of all voltages
- Comprehensive load profile recording of all outputs
- Report generation via the device's web interface (PQ Easy Report)
- Cyber security (OT) / cyber protection
- Evaluation via PQIS® possible

For ordering details, please see the website and [configurator](#)

Monitoring and Controlling



With high-performance systems, not only can you record energy flows, grid conditions, and system behavior - you can actively control them. Our solutions enable real-time monitoring of electrical parameters while offering integrated control functions, combining a measuring device and a logic module into a single device to automatically respond to events and control processes intelligently. This enables you to achieve transparency, maintain control over critical conditions, and optimize your energy system holistically.

Contents

14 - 2 Measuring Instrument with Control Function



CENTRAX CU5000

Flexible solutions for the energy sector

- Combined device: Integrates a high-precision measurement instrument for heavy-current applications with a freely programmable PLC (CODESYS-based) in a single unit
- Eliminates external components: Often removes the need for a separate controller, control system, remote display, or additional data logger
- Extensive measurement data: Provides more than 1,500 high-quality status, energy consumption, and power quality parameters
- Flexible data processing: The control application can logically process measurement data, use it in control algorithms, and interact with energy producers or consumers as required
- Communication: Offers freely configurable I/Os and Modbus interfaces for seamless integration into the process environment
- Applications: Suitable for autonomous solutions in energy management, load control and optimisation, asset monitoring, and general automation or control tasks
- Integration: Can be connected to higher-level systems at any time

For ordering details, please see the website and [configurator](#)

Software and Systems



Powerful software solutions are the heart of modern monitoring and analysis systems. They record, visualize, and analyze measurement data in real time to ensure transparency about energy flows, power quality, and system status. Our software and system platforms enable the efficient integration of measuring devices, support energy management in accordance with ISO 50001, and offer scalable solutions for monitoring, analysis, and optimization - from individual sites to international corporate networks, and from mobile to stationary installations.

Contents

- 15 - 2 Monitoring
- 15 - 3 Power Quality Analysis

SmartCollect SC²

Innovative and scalable multi-component software



- Power Monitoring and Power Quality Software
- Interactive single-line diagram
- Flexible dashboards
- Event and warning messages
- Integration of numerous devices from different manufacturers
- WebGUI integration of measuring devices
- Sophisticated zoom function
- Interactive 2D/3D views
- PQEasy functions
- Secure web browser-based system

For ordering details, please see the website and [configurator](#)



METRAVIEW Basis

METRAVIEW – Your Energy Data Platform

- 100 % web-based: Access from any end device - without local installation.
- Modular and scalable: METRAVIEW grows with your requirements. Individual function modules can be flexibly combined - from basic visualization to complete energy management in accordance with ISO 50001.
- Manufacturer-independent and open: Open standard interfaces such as OPC UA, MQTT, Modbus or ECL enable the simple integration of existing meters, systems and third-party devices.
- Intelligent alarming and trend analysis: The integrated alarm and trend platform monitors processes in real time, detects deviations at an early stage and ensures maximum system availability.
- Individual dashboards and SCADA visualization: User-defined dashboards and high-quality process images clearly display energy and process data - intuitive to use and optimized for all display sizes.
- Automated reporting: Flexible reporting with configurable reports and automatic dispatch by e-mail or FTP - without programming effort.
- Multi-client capable user management: Fine-grained rights management for different user groups and locations - ideal for distributed organizations and service partners.

For ordering details, please see the website and [configurator](#)



METRAVIEW Energy

METRAVIEW Energy – the Module for Software-Supported Energy Management

- Energy data recording: Complete recording and evaluation of all energy and media consumption - including electricity, gas, water, heat and compressed air - automated or manual.
- Energy management in accordance with ISO 50001: Support in the introduction and active phase in accordance with ISO 50001 / 50006 / 50015. Recording, evaluation and optimization of energy-related processes based on the PDCA cycle.
- Energy performance indicators (EnPI): Creation and management of individual indicators to evaluate energy efficiency. Basis for transparent and comparable energy analyses.
- Balancing group analyses and measurement concepts: Presentation and plausibility check of measurement concepts with balance trees, Sankey and flow diagrams for a holistic energy view.
- Cost and consumption reports: Automated creation of energy and cost reports with freely definable time periods, hierarchies and cost centers.
- Meter management and media management: Recording and allocation of meters, media and tariffs in a clearly structured hierarchy.
- Forecasts and action tracking: Plausibility check of historical data, trend analyses and tracking of energy efficiency measures based on the PDCA cycle.
- Open interfaces: Standardized communication via OPC UA, Modbus, MQTT, MSCONS or ECL for connecting existing systems and third-party devices.
- Multi-client capable structure: Multi-user capable platform with role-based access and detailed assignment of rights for different organizational units and locations.

For ordering details, please see the website and [configurator](#)



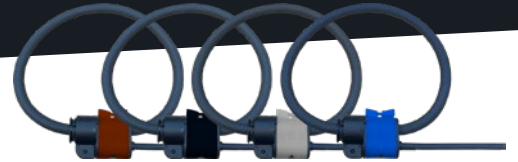
Dran-View Enterprise

Operation and evaluation with Dran-View

- Scrollable and flexible diagrams can be generated and analyzed
- Individual range markers and delta function
- Customized and automated reports
- "Rescue kit" - Corrects the measured values of incorrectly connected current probes and incorrect time stamps
- Customized views ensure the correct overview
- Harmonics tool - Simulate and analyze ramping generators and switch-on processes
- Event tables
- Define your own formulas and conditions
- Snapshot - Record any number of trend curves or waveform diagrams
- Add comments and images, e.g., of damage incurred, for documentation purposes

For ordering details, please see the website and [configurator](#)

Current Sensors



Precise current and voltage measurement is the basis of any effective energy measurement. Our current sensors provide the critical measurement parameters for applications in the fields of power analysis, energy management, and grid monitoring. They provide a reliable data foundation for accurate analyses and promote the efficient and safe operation of modern energy systems.

Contents

16 - 2	Flexible AC Current Sensors
16 - 6	AC/DC Split Core Current Transducers
16 - 7	DC Split Core Current Transducers
16 - 8	AC/DC Current Clamps
16 - 10	Wound-primary Current Transformers
16 - 11	Bushing-type Current Transformers
16 - 12	Split-core Current Transformers
16 - 13	Summation Current Transformer
16 - 14	Residual Current Transformer
16 - 15	Wireless Current Transformer
16 - 16	Multiple Output Measurement



ProSys ACP 3000/24

3 range flexible current sensor 30, 300 & 3000 AAC ranges, sensor length 24" / 61cm, 4mm safety plug output, battery powered

- Low Voltage Grid Monitoring
- PQ Measurements Building
- Energy monitoring
- Other measurement applications of high AC currents

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys ACP 3000_3/24

3 range flexible current sensor 30, 300 & 3000 AAC ranges, sensor length 24" / 61cm, BNC output, battery or externally powered

- Low Voltage Grid Monitoring
- PQ Measurements
- Building Energy monitoring
- Other measurement applications of high AC currents

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys ACP 3003_3/24

3 range 3 phase flexible current sensor 30, 300 & 3000 AAC ranges, sensor length 24" / 61cm, BNC output, battery or externally powered

- Low Voltage Grid Monitoring
- PQ Measurements
- Building Energy monitoring
- Other measurement applications of high AC currents

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys ACP 3005/24

3 range flexible current sensor 30, 300 & 3000 AAC ranges, sensor length 24" / 61cm, BNC output, battery or externally powered

- Low Voltage Grid Monitoring
- PQ Measurements
- Building Energy monitoring
- Other measurement applications of high AC currents

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3000/16

Flexible Rogowski sensor 16" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3000/24

Flexible Rogowski sensor 24" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3000/36

Flexible Rogowski sensor 36" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3003/16

Three phase flexible Rogowski sensor bundle 16" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3003/24

Three phase flexible Rogowski sensor bundle 24" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3003/36

Three phase flexible Rogowski sensor bundle 36" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3004/16

Four phase flexible Rogowski sensor bundle 16" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3004/24

Four phase flexible Rogowski sensor bundle 24" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FIT 3004/36

Four phase flexible Rogowski sensor bundle 36" long

- Low-voltage grid monitoring
- Rogowski sensor for load flow detection (local network stations, power stations and power quality)
- Accuracy class 0.5 A1 (in accordance with EN 61869-10)
- Suitable for detecting supraharmonic harmonics (>150 kHz)
- Robust design (durable, UV-stable, fireproof, IP67)

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys AT 30

30 A DC and AC current transformers with compensating Hall effect technology 100mV/A output
Single 12 V external power Output connection via Phoenix Contact MC 1,5/5-G-3,81 connector

- Railway Trainside Applications
- Battery Charging Systems
- Power Supplies for Telecoms
- Airport Lighting Circuits

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys AT 300

300 A DC and AC current transformers with compensating Hall effect technology 10mV/A output
Dual 12 V external power Output connection via Phoenix Contact MC 1,5/5-G-3,81 connector

- Railway Trainside Applications
- Battery Charging Systems
- Power Supplies for Telecoms
- Airport Lighting Circuits

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys AT 1000

1000 A DC and AC current transformer, with direct-mapping Hall effect technology 1 mV/A output
 ± 15 V external supply Output connection via Phoenix Contact MC 1.5/5-G-3.81 plug

- Railway Trainside Applications
- Battery Charging Systems
- Power Supplies for Telecoms
- Airport Lighting Circuits

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys TFT 600_1

Split core DC current transducer 0.6 A rated 4-20 mA output

- Signal light monitoring
- Signalling health monitoring
- Points machine monitoring
- Crossing gate monitoring
- Condition monitoring

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FT 0.6 CUR

Split core DC current transducer 0.6 A rated 4-20 mA output Current trip with relay output LED trip indicator.

- Fast and easy mounting
- Connector locking feature
- Non-contact measurement (does not need safety case)
- Excellent accuracy
- Ultra stable over time and temperature
- DIN rail or panel mounting
- 4 to 20 mA current output
- Current trip with relay output
- LED trip indicator
- Fault indication via LED

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys FT 5.0 CUR

Split core DC current transducer 5 A rated 4-20 mA output Current trip with relay output LED trip indicator

- Fast and easy mounting
- Connector locking feature
- Non-contact measurement (does not need safety case)
- Excellent accuracy
- Ultra stable over time and temperature
- DIN rail or panel mounting
- 4 to 20 mA current output
- Current trip with relay output
- LED trip indicator
- Fault indication via LED

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 30

30 A DC and AC current clamp, with compensating Hall effect technology 100 mV/A output Battery operated (9 V PP3) Output connection via 4 mm safety plug

- Testing of electrical systems in light industry and residential buildings
- Measurement of leakage currents
- Process control for testing 4–20 mA current loops
- Applications in the automotive sector, e.g. measurement of leakage currents and current profiling

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 35

30 A DC and AC current clamp, with compensating Hall effect technology 100 mV/A output Battery operated (9 V PP3) Output connection via safety BNC connector

- Light industrial and residential electrical installation testing
- Leakage current measurements
- Process control for 4 – 20mA current loop verification
- Automotive applications e.g. Leakage current measurement and current profiling

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 41

40 A DC or AC current clamp, with compensating Hall effect technology Battery operated (9 V PP3) LCD display

- Leakage current measurements (CP41)
- Process control for 4 – 20mA current loop verification (CP41)
- Battery charging systems
- Starting currents
- Light industrial and residential electrical installation testing

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 305

Two measuring ranges 30 A and 300 A DC and AC current clamp, with direct-imaging Hall effect technology 10 mV/A (30 A) 1 mV/A (300 A) Output Battery operated (9 V PP3) Output connection via safety BNC plug

- Light industrial and residential electrical installation testing
- Battery charging systems
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls
- Automotive applications e.g. Starter current measurement and current profiling

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 410

Two measuring ranges 40 A and 400 A DC or AC current clamp, with direct-imaging Hall effect technology Battery operated (9 V PP3) LCD display

- Battery charging systems
- Starting currents
- Light industrial and residential electrical installation testing

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 1000

1000 A DC and AC current clamp, with direct-imaging Hall effect technology 1 mV/A output Battery operated (9 V PP3) Output connection via 4 mm safety plug

- Light industrial and residential electrical installation testing
- Battery charging systems
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls
- Automotive applications e.g. Starter current measurement and current profiling

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



ProSys CP 1005

Two measuring ranges 100 A and 1000 A DC and AC current clamp, with direct-imaging Hall effect technology 10 mV/A (100 A) 1 mV/A (1000 A) Output Battery operated (9 V PP3) Output connection via safety BNC plug

- Light industrial and residential electrical installation testing
- Battery charging systems
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls
- Automotive applications e.g. Starter current measurement and current profiling

Availability of the product on request.

For ordering details, please see the website and [configurator](#)



SIRAX CT1xx

Wound-Primary Current Transformers for Indirect Measurement of Sinusoidal Alternating Current

- Wound primary current transformer with primary winding and primary terminal blocks instead of a continuous busbar
- Burst-resistant plastic housing made from polycarbonate
- Hardly inflammable and self-extinguishing according to UL94 V0
- Manipulation protection of the connections by means of sealable covers
- Compact design allows for use in difficult to reach places with limited space requirements
- Easy and quick assembly
- High accuracy class up to 0.2
- Particularly suitable for small primary currents from 1 A to 60 A

For ordering details, please see the [website](#) and [configurator](#)



SIRAX CT2xx

Bushing-Type Current Transformer for Indirect Measurement of Sinusoidal Alternating Current

- Safe housing with high flame protection
- Protection against tampering due to sealable covers
- Protection against contamination due to optimized housing
- Closed coil body
- High measuring accuracy up to class 0.2S
- Wide range of nominal sizes and dimensions
- Simple and fast mounting
- Safe connection technology via screw terminals
- Suitable for round conductors, copper bars, mounting rails
- Various mounting options available such as wall mounting, cable mounting, rail mounting or DIN rail mounting
- Maintenance-free
- Primary currents up to 2500 A, higher currents available upon request

For ordering details, please see the website and [configurator](#)



XCTB

Bushing-type current transformer of the „XCTB“ series for power quality applications up to 20 kHz applications

- For power quality applications up to 20 kHz
- Suitable for harmonic loaded networks up to 9 kHz with the basic frequencies of 50 Hz or 60 Hz
- High insulation test voltage up to 6 kV
- Tested lightning surge voltage for 690 V systems according to the IEC 61439-1 / -2
- Safe housing with high flame protection
- Protection against contamination due to optimized housing
- Easy and quick installation
- Safe, time-saving and screwless connection technology for massive and flexible conductors
- Various mounting options such as wall mounting, DIN rail mounting or Quick-Fix are available
- Shock and vibration resistant
- Maintenance-free
- Primary currents up to 2000 A, higher currents available upon request

For ordering details, please see the website and [configurator](#)



SIRAX CT3xx

Split-Core Current Transformer

- Burst-resistant plastic housing made of polycarbonate
- Flame-retardant and self-extinguishing in accordance with UL94 V-0
- Manipulation protection of the connections by means of sealable covers
- Locking protection prevents accidental opening
- Use in difficult to reach places with limited space requirements
- Easy and quick mounting thanks to the splittable core halves
- Ideal for retrofitting in existing systems without interrupting the power supply
- Various mounting options available such as wall mounting, cable mounting, rail mounting
- Primary currents up to 2500 A, higher currents available upon request

For ordering details, please see the website and [configurator](#)



SCxx

Cable conversion current transformers for primary currents from 60 A to 1000 A

- Compact, split-core current transformers for primary nominal current from 60 A ... 1000 A and secondary nominal current of 1 A or 5 A.
- Very easy and time-saving installation thanks to split-core design.
- Particularly suited for retrofit purposes since the dismantling of primary leads is not necessary
- Allows for retrofitting without interrupting mains power supply
- Compact design allows for use in areas with restricted access and confined space
- Clearly audible click sound confirms proper installation. Additional safety is provided by UV proof cable ties.
- Accuracy class: 0.5 or 1 or 3 (depending on type)

For ordering details, please see the website and [configurator](#)



SIRAX CT6xx

Summation Current Transformer

- Summation of secondary currents to several main converters
- This allows access of the measurement for a measuring instrument
- At the output a standardized measuring signal is available
- Burst-resistant plastic housing made of polycarbonate
- Flame-retardant and self-extinguishing in accordance with UL94 V-0
- Terminal protection, IP 10
- Nickel-plated terminals with plus/minus screws
- Various mounting options such as wall or top-hat rail mounting

For ordering details, please see the website and [configurator](#)



DACT

Bushing-type residual current transformer

- Highly sensitive current sensor for detecting smallest fault currents
- Simple connection via 4-pole WAGO® spring-type terminal
- High safety, thanks to integrated overvoltage protection
- Flexible use due to a large frequency range
- Easy and quick mounting

For ordering details, please see the website and [configurator](#)



KBU

Split-core residual current transformers

- Highly sensitive current sensor for detecting smallest fault currents
- Manipulation protection of the connections by means of sealable covers
- Ideal for retrofitting in existing systems without interrupting the power supply
- Flexible use due to a large frequency range
- Easy and quick mounting thanks to the splittable core halves

For ordering details, please see the website and [configurator](#)



PME 3P

PME radio module 3-wire (3P)

- Available in two versions: 3-wire (3P) and 4-wire (3PN)
- Max. measurable current per Rogowski coil 1200 A
- Total harmonic distortion THD I and TDD I (per phase)
- Waveform (100/120 values per period)
- Radio frequency 2.4 GHz, distance of 10 m when delivered
- Fast commissioning by sensor registration via QR code
- Supply using batteries (lifetime up to 10 years) or USB-C
- Access via the measuring device (PME center)

For ordering details, please see the website and [configurator](#)



Current-Modul 3P

Current Module 3P, with triple Rogowski transformer

- Available in two versions: 3-wire (3P) and 4-wire (3PN)
- Measurement of currents in a low-voltage distribution system
- Provision of basic power data in accordance with IEC61000-4-30
- Monitoring of each conductor using color-coded Rogowski coils
- For use exclusively in conjunction with base devices featuring Current Link technology

For ordering details, please see the [website](#) and [configurator](#)

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GMC-Instruments GmbH

Südwestpark 15 • 90449 Nürnberg • Germany

Phone: +49 911 252661-0 • Fax: +49 911 252661-881

www.gmc-instruments.com • info@gmc-instruments.com

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