

SIMPLY
RELIABLE

PROFITEST

UNIVERSAL, STATE-OF-THE-ART
SYSTEMS TEST INSTRUMENTS



.IQ

PROFITEST M SERIES

TECH+ IQ • XTRA IQ • PRO IQ



The PROFITEST M Series

For professional testing of electrical systems in accordance with IEC 60364-6, EN 50110-1, DIN VDE 0100-600 / DIN VDE 0105-0100 / ÖVE ÖNORM 8001-6 / NIV/NIN



THE PROFITEST M SERIES

THE PRO AMONGST TESTERS

PROFITEST MXTRA IQ
for IZYTRONIQ software
ARTICLE NO. M535D

PROFITEST MTECH+ IQ
for IZYTRONIQ software
ARTICLE NO. M535B

PROFITEST MPRO IQ
for IZYTRONIQ software
ARTICLE NO. M535C

PROFITEST MXTRA
for ETC and other software
ARTICLE NO. M520P

PROFITEST MTECH+
for ETC and other software
ARTICLE NO. M520R

PROFITEST MPRO
for ETC and other software
ARTICLE NO. M520N

Information regarding packages and accessories is included in the data sheet.

The new PROFITEST range of test instruments provides professional electricians with a state-of-the-art, universal measuring tool.

The instrument is capable of executing all measurements for testing the effectiveness of safety measures in electrical systems as required by IEC 60364-6, and as specified in the individual sections of VDE 0413 / DIN EN 61557. And thus it's ideally suited for approvals and periodic testing of stationary electrical installations. Thanks to measuring category CAT IV, the PROFITEST M Series provides the user with highest possible safety levels.

Whether it's used in private, commercial or industrial objects – the PROFITEST M Series assures the user that his installation complies with all applicable regulations, and that it functions reliably. It goes without saying that test results can be transferred to a PC and documented as verification of correct installation.

In actual practice, the PROFITEST M Series is distinguished by extremely easy operation and a broad ranging spectrum of tests. Its advanced technical concept is consistently oriented towards everyday tasks in the field of electrical engineering. In addition to basic standard tests, the instrument also offers numerous additional measuring functions for subjecting installations to the acid test, which provide highly accurate results.

A special advantage of the PROFITEST M Series is its intelligent, ergonomic design. Control is simple and safe, and data can be conveniently read from the large, illuminated display. An extensive range of accessories offers the right connection options for every task.

The PROFITEST M Series is setting new standards where time savings, safety and convenience are concerned: a combination of innovative design and an ergonomic operating concept make it the ideal companion for any electrician.

Tests and measurements can be conducted with the PROFITEST product range in all alternating and 3-phase electrical systems with voltages from 65 to 500 V and frequencies of 15.4 to 420 Hz.

YOUR ADVANTAGES

PROFITEST – Versatile and Future-Proof

- Intuitive operation
- Efficient work
- Standards-compliant testing
- Legally secure reporting

PROFITEST – Saves Time and Money

- A single test instrument for a broad range of applications
- All measurements without any bothersome replugging of the measurement cables
- Can be used all over the world thanks to language selection

PROFITEST – Even 10 Years Down the Road

- Future-proof thanks to firmware updates
- 10-year service guarantee
- DAkkS certificate issued by proprietary calibration laboratory
- User support for questions about testing

PROFITEST – Quick and Easy Report Generation

- Cascadable, future-proof software concept
- Modern data management by means of customer and measurement data administration
- Creation of system structures – from the system all the way down to the measuring points
- Quick and easy generation of a legally secure report

PROFITEST – Reliable Measuring and Testing

- Easy operation with rotary switch
- Predefined test sequences for structured testing
- On-site help thanks to help function with wiring diagrams
- Measuring category: 600V CAT III / 300V CAT IV
- 4-wire measuring method – no compensation of the measurement cables is required

HIGHLIGHTS

■ INNOVATIVE, GLOBAL OPERATING CONCEPT

Quick access to measuring and test functions via rotary switch and softkeys

■ UNIQUE STORAGE CONCEPT

Creation of system structures – customers, systems, machines, distributors, RCDs, IMDs, RCMs, electrical circuits, earth electrodes, equipotential bonding rails, operating equipment and individual measuring points, (IQ)

■ UNIVERSAL INTERFACE

Bidirectional data exchange (USB), connection of a barcode scanner and Bluetooth/USB: push-print function, Bluetooth keypad (IQ)

■ USER-FRIENDLY

Variably adjustable display in any position

■ PUSH-PRINT FUNCTION

Transmission of the measured value via Bluetooth/USB after measurement has been completed

■ UNIVERSAL USE

Measuring and testing made easy with replaceable, rechargeable battery. Extensive accessories for any application.

■ MODERN DATA MANAGEMENT

Comprehensive data management concept in combination with user software including customer and measured value administration, test sequences and report generation

■ TEST SEQUENCES

Preparation of individual test sequences for quick and reliable testing of machines and systems

■ RUGGED HOUSING

Compact, impact-resistant housing thanks to 2-component technology

RELIABLE TESTING



ELECTRICAL SYSTEMS

SAFE TESTING WITH MEASURING CATEGORY CAT IV

- Testing of the effectiveness of protective measures per IEC 60364-6 / EN 50110-1
- Measurements in TN/TT/IT systems
- Low-resistance measurement for protective and equipotential bonding conductors with automatic polarity reversal per selon VDE 0413-4 / DIN EN 61557-4
- Measurement of internal system resistance and fault loop resistance without tripping type A RCDs
- Insulation measurement with rising ramp
- Testing of RCD types A, AC, F, B, B+, A-EV, B-MI and G/R, as well as SRCDs and PRCDs
- Measurement of earth resistance and earth loop resistance



CHARGING INFRASTRUCTURE

SAFE TESTING WITH E-ADAPTER

- Standards-compliant testing of the effectiveness of protective measures per E-CHECK E-Mobility
- Safe detection of touch voltage via finger contact
- Testing of RCD type EV (electric vehicles) and RDC-DD with direct residual current – continuously rising ramp, time to trip and tripping current per IEC 62955
- Integratable test sequence for the simulation of vehicles (CP), cables (PP) and errors at electric charging stations and wall boxes
- Testing of mode 2 and 3 charging cables per DIN VDE 0701-0702
- Testing of type 2 surge voltage protectors



ELECTRIC MACHINES

SAFETY TESTING WITH DEFINED ACCESSORIES

- Testing in compliance with DIN EN 60204-1 / VDE 0113-1
- Low-resistance measurement for protective and equipotential bonding conductors per VDE 0413-4 / DIN EN 61557-4
- Measurement of insulation resistance with capacitive discharging
- Leakage current measurement with adapter
- Testing of residual current monitoring devices (RCMs)
- Residual voltage measurement
- Creation of test sequences and system structures

CONNECTING INTELLIGENCE

A NEW DIMENSION OF TEST TECHNOLOGY

QUICK AND EASY SETUP OF COMPLEX STRUCTURES AND TESTS

IZYTRONIQ is a newly developed test software with which the entire testing scenario can be visualized, managed and documented in an audit-proof, instrument-independent fashion. And thus for the first time ever, you can combine and document measurement and test data from various test instruments and multimeters into a single test.

- **INTELLIGENT** – IZYTRONIQ is revolutionizing the way you work with your test equipment.
- **SECURE** – audit-proof test documentation
- **EFFICIENT** – quick test documentation
- **SIMPLE** – intuitive operation, simple and easy to understand
- **FLEXIBLE** – can be subsequently expanded

For more information visit www.izytroniq.com.

IZYTRONIQ



LIGHTNING PROTECTION SYSTEMS

SAFE GROUNDING SAVES LIVES

- Measurement of earth resistance and earth loop resistance
- Earth loop resistance measurement without tripping type A RCDs
- 3/4-wire measuring method with auto-ranging
- Selective earth measurement with current clamp
- Measurement of soil resistivity according to Wenner
- 2-clamp method – measurement in, amongst others, meshed systems
- Earthing resistance measurement in potential gradient areas
- Measurement of foundation earth electrodes per DIN 18014

Optional accessories may be required depending on model.



MEDICAL DEVICES, POWER GENERATORS

SAFE TESTING IN IT SYSTEMS

- Safe detection of touch voltage via finger contact
- Testing of SEA and electrical medical systems
- Measurement of internal system impedance with high test current
- Testing of insulation monitoring devices (IMDs)
- Evaluation of the IMD's response characteristics by means of manual or automatic measuring sequence
- Special measuring circuit for testing type B RCDs in IT systems, time to trip / tripping current



RAILWAY AND AVIATION

SAFE TESTING IN ALL SYSTEMS

- Measurements in alternating and 3-phase electrical systems with voltages from 65 to 500 V and frequencies from 15.4 to 420 Hz
- Low-resistance measurement for protective and equipotential bonding conductors with 200 mA and automatic polarity reversal per DIN VDE 0314-4 / DIN EN 61557-4
- Testing of RCD types A, AC, F, B, B+, B- MI, and G/R, as well as SRCs and PRCDs
- Combined RCD test with continuously rising ramp, time to trip, tripping current
- Measurement of internal system resistance and fault loop resistance without tripping type A RCDs
- Measurement of insulation resistance with rising ramp per DIN VDE 0314-2 / DIN EN 61557-2

CALIBRATION CENTER

Calibration as a standard feature is an essential QA factor for professional test equipment monitoring. Our calibration center is accredited per DIN EN ISO / IEC 17025 as a DAkkS calibration lab under registration no. D-K-15080-01-01.

Our services:

- DAkkS calibration
- Factory calibration
- Test equipment monitoring
- Verification of energy meters at our state-approved test laboratory



SERVICE CENTER

In order to assure that your measuring and test instruments are always ready for use, the employees at our GMC-I Service Center complete any necessary repairs quickly, reliably and economically.

Our services:

- Repair services executed by qualified personnel
- Rental instrument service
- Replacement parts for a long service life
- Update service for reliable measuring and testing in the future as well



ADDED VALUE – FROM GOSSEN METRAWATT

TRAINING CENTER

Ongoing qualification enjoys top priority, because complex measuring tasks, standards and regulations are subject to continuous change. Our instructors are experienced experts who are familiar with the requirements based on actual practice and always keep themselves up to date.

We can provide you with:

- Training at GMC-I's training center
- Training on-site at your location
- Individualized training concepts, customized to meet your needs
- Webinars on selected topics



PRODUCT SUPPORT

Our product support department makes numerous support services available, regardless of whether you need to solve a problem with a product, require on-site technical support, want help with one of our software products or are seeking technical advice regarding standards or measuring applications.



We can provide you with:

- Telephone and e-mail support for technical questions and problems
- Consultation concerning applicable standards and products
- Software support
- Extensive FAQs





GMC INSTRUMENTS

 **GOSSEN METRAWATT**
 **CAMILLE BAUER**

GMC-I Messtechnik GmbH
Südwestpark 15 ■ 90449 Nürnberg ■ Germany
Phone: +49 911 8602-999 ■ Fax: +49 911 8602-125

www.gossenmetrawatt.com ■ export@gossenmetrawatt.com