



GOSSEN METRAWATT

Safety through Competence



Test and Measurement Product Overview **2011**

World Class Hardware & Software

MAVOWATT | 70

3-Phase Energy and Power Disturbance Analyzer Class A



Target Groups:

Energy Consultants • Network Planning • Plant Revision • Start-up & Maintenance

Applications:

Electric Power and Mains Disturbance Analysis • Harmonics • Flicker • EN 50160 • Start-up and Fault Events

Features:

- Integrated analysis module to make event evaluation easy
- Measurement of fast transients with 1 MHz sampling rate
- 8 measurement channels: four voltage (differential) & four current at 50/60 Hz
- Data storage to compact flash memory cards 4 GB

MAVOWATT | 50

3-Phase Energy and Power Disturbance Analyzer 1000 V–1000 Hz



Target Groups:

Energy Consultants • Network Planning • Plant Revision • Start-up & Maintenance

Applications:

Electric Power Disturbance Analysis • Harmonics • Flicker • Transients >10 μ s • EN 50160 • Measurements on Variable Frequency Drives (VFDs)

Features:

Measurements in single- and three- phase systems:

- DC or 15 Hz ... 1000 Hz, including harmonics (50th)
- Integrated USB and Ethernet ports
- Integrated 50 MB memory, expandable by CF Card or USB memory

MAVOSYS | 10

Power Quality Monitoring System Class A

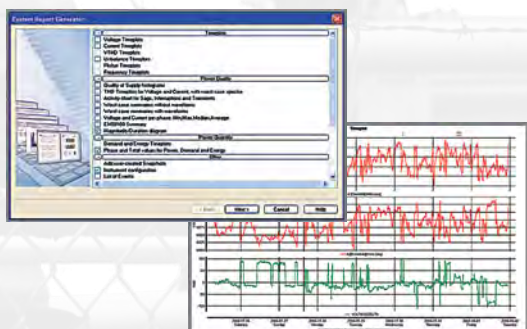


Modular, high performance PQ-System to monitor power on a remote location

Please refer to our website: www.gossenmetrawatt.com

DranView6

Evaluation and Analysis Software



Features:

- Recognized as the most powerful PQ Visualization, Analysis and Report Writing Software
- Easy to use and most flexible in operation
- Statistical tables, PQ Supply Reports, Spectrum Graphs for Harmonics, Event Lists, Time Plots for hundreds of parameters

PROFITEST | MASTER

Range of Test Instruments for VDE 0100 / IEC 60364.6



Target Groups:

Maintenance & Repair Organizations (MROs) • Electrical Engineering • Contractors

Applications:

Testing of Residual Current Devices (RCCBs) • Low Resistance • Loop & Line • Impedance Measurement • Earth & Insulation Resistance Measurement in various modes • Four Versions with different capabilities to choose from

Features:

- Test of DC sensitive RCD's
- Earth resistance test with 2-clamp method
- Suitable for AC Systems incl. 3-phase from 65 – 500V, 15 – 420 Hz
- Universal Connector System
- 4-wire measurement system provides accuracy made simple
- Configurable Data Memory for up to 50 000 tests
- PC software ETC for protocols and data management standard
- DKD traceable Calibration Certificate included
- Automatic measurement cable compensation

GEOHM C

Ground Resistance Tester



Target Groups:

Building construction • System construction

Applications:

Measurement of ground resistance in electrical systems:
Installation of power systems with V_{nom} of up to 1000 V (DIN VDE 0100) •
Grounding in AC systems with V_{nom} of over 1 kV (DIN VDE 0141) •
Setup & Operation of telecom systems: equipotential bonding & grounding •
Test of Lightning Protection; configuration of grounding systems

Features:

- User friendly & rugged – many menu languages available
- GEOHM 5 only:**
- Earth resistance measurement with current clamps
 - TRMS current measurement via optional clamp meter

METRAFLEX | 3000 & P300

Flexible Current Sensors



Features:

- Wide range of applications, 3 measuring ranges 30 A/300 A/3000 A AC and wide bandwidth 10 Hz ... 20 kHz for harmonic analysis
- **Extraordinary high precision** even at low currents, due to wide dynamic range and high sensor sensitivity
- Easy to operate in restricted space thanks to small sensor cross-section of 9.9 mm and slim end cap of 13.6 mm, IP65 Rating
- Extremely long battery life of up to 2,000 hours & external power for long-term
- 600V @ CAT IV rated safety 1000 V @ CAT III, unlimited overload, UL approved

METRISO 5000D-PI

Digital high-voltage insulation tester 100 ... 5000 V



Target Groups:

Utilities • Industries • Manufacturer •
Service companies and organizations

Applications:

Preventive non-destructive measurement of insulation resistance •
in electrical systems by **Polarization Index Method**

Features:

- Excellent quality and safety, easy handling
- Good results in electromagnetic fields
- On-site printer
- Free of charge PC-software for reports

METRAHIT | ISO

Insulation tester and multimeter 50 ... 1000 V – smart data Logger



Target Groups:

Electro Service • White Goods/Household Appliances • Photovoltaic
and hybrid technology • Utilities • Switch gear cabinet manufacturers •
Electrical Installers

Applications:

Measurement of insulation resistance between conductive parts •
Insulation testing at switch gears • Special version for Telecommunication
Industries (METRAHIT T-Com) • Photovoltaic IEC 60364-7-712 Instal-
lation of low voltage installations • IEC 61730-2 Safety qualification of
photovoltaic installations

Features:

- Handy Multimeter and Insulation Tester
- Smart Data Logger System

METRAHIT | CAL

Multifunctional calibrator – simulator



Target Groups:

Process and automatization engineering • control room and equipment
fabrication • general measuring technology

Applications:

Calibration of measuring transducers • buffer amplifiers • transmitters •
temperature measuring and recording instruments • controllers • signal-
ling devices and indicators.

Features

- Universal calibrator, simulator for mA/mV ... V/°C/°F (Pt100/1000, Ni100/1000,
thermocouples: J, L, T, U, K, E, S, R, B, N)/5 ... 2000 Ω
- Frequency and pulse run generator
- Ramp and staircase functions
- Transmitter simulator

METRAHIT | A, E, S-Series

METRAHIT Series Multimeter & Measuring Systems



Applications:

With 20+ measurement functions, high accuracy and resolution of up to 60000 digits these meters serve all markets where high performance is required – in the laboratory and in the field. With Data Logging, IR-Interface and MetraWin Software these meters are High Precision Measuring Systems with superior price/performance ratio.

Features:

- METRAHIT Outdoor with IP65 Rating
- Patented Automatic Input Blocking System (ABS)
- Intrinsically Safe Milliohmmeter
- DMM + Insulation Testing + Smart Data Logging
- The Safest Multimeters in the World
- DKD traceable Calibration Certificate included

METRAHIT | WORLD & 2+

Autoranging Multimeter for international use



Features:

- Economy & Superior Performance
- ABS Automatic Input Blocking System
- Self-Calibration Mode in the field
- Wide range of functions
- Temperature Measurement

METRAHIT | 27EX, I, M

Milliohmmeter for Use in Potentially Explosive Atmospheres



Target Groups:

Production & Maintenance of aircrafts • motors • railways • switch boards etc

Applications:

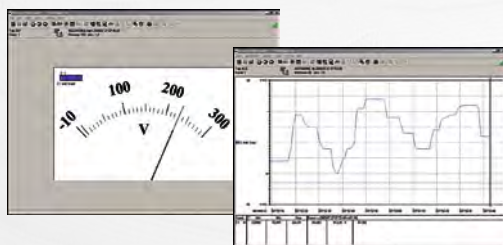
Tests of contact resistance of busbars, switches, terminals • Insulation measurements at wires in airplanes and helicopters • Special ATEX certified version for measuring in potentially explosive atmospheres • Bonding Test in fuel tanks

Features:

- Intrinsically Safe Milliohmmeter ATEX (27EX)
- DMM + Milliohm + Microohm + Insulation Tester (27I)
- DMM + Milliohm + Microohm (27M)

METRAwin 10/METRAHIT

PC software for protocols and data handling



Features:

- Measured values are queried from the multimeters by METRAwin 10, are managed at the PC and can be displayed as Yt or XY graphs (up to 6 channels), or in tabular form (up to 10 channels)
- Measurement data can be easily imported to other Windows applications with the clipboard function at the PC (e.g. Word or Excel)
- The software runs under Windows 95B, 98, ME, NT, 2000, XP and Vista

SECUTEST | SIII+

Electrical Safety Tester for Portable Appliances and Devices



Target Groups:

Manufacturer & Service organisations of electrical appliances and devices

Applications:

Testing the electrical safety of:

Electrical household appliances (IEC EN 60335) • Electrical equipment for measurement and laboratory devices (EN 61010) • Electrical equipment (VDE 0701, BS, NEN3140) • Data processing devices and equipment (VDE 0701 part 240, EN 60950)

Features

- Protective conductor resistance test with 200 mA, 10 A or with 25 A test current
- Manual or preprogrammed automatic test sequences for many standards and applications
- High voltage up to 6 kV DC without safety fence
- RCD built in for safety of skilled person & user
- Modular, also in pricing

MetraMachine 204/2,5+ & 439/5,4+

CE Mark Tester & Electric Safety for Switchboards and Machinery



Target Groups:

Switchboard (EN 60439) and machinery (EN 60204) manufacturers

Applications:

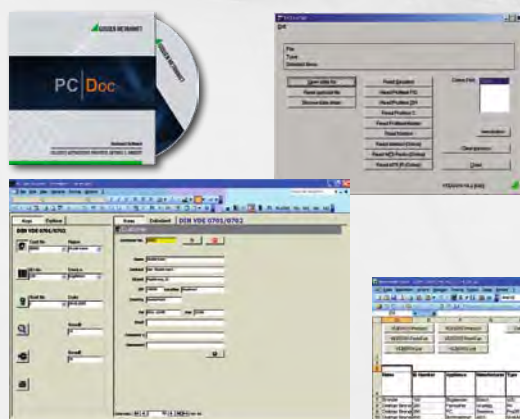
Quick, safe testing of electrical and electronic equipment and systems, with nominal voltages of up to 1000 V, at machinery in accordance with DIN EN 60204-1 and VDE 0113, together with PROFITEST C's loop impedance tests.

Features:

- Is by far the easiest and safest to handle instrument
- Instrument & memory remote control for R_{SL} and R_{ISO}
- Precise 4-wire connection

PC | DOC

PC software for protocols and data handling

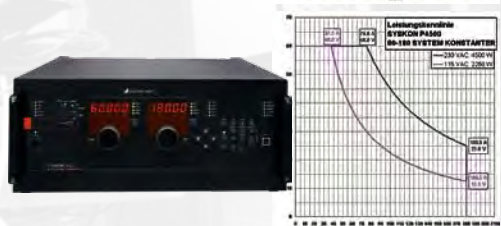
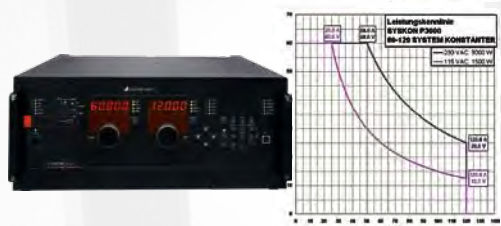
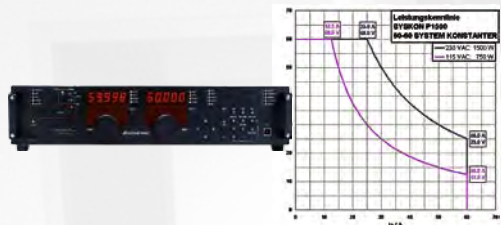


Features:

- PC.doc-Word/Excel inserts test results and data entered at the test instrument into protocols, test- or list forms
- Data can be exported to MS Word and Excel for further processing and print out.

SYSKON | P1500, 3000, 4500 & KONSTANTER SSP 240

Programmable Power Supplies 120W ... 4500W



Target Groups:

R&D, Production and Testing Facilities of:
Automotive & Avionic/Aerospace • Communication & IT- and Solar Panel Industries • Electronic Circuit Companies • Laboratories • Schools • Universities • etc

Applications:

Power simulation (UID characteristic) of defined and precise voltage- and current signals in R&D • production and test-/ quality assurance

Features:

- Very fast response & setting times
- Fast (rise time < 2 ms) and
- Precise (0,05 %, 5 digit display)
- Power Supplies from 120 W to 4500 W
- Low ripple
- Protections: Over Voltage – Over Current – Over Temperature
- Up to 1700 test sequences and 15 device configurations can be programmed
- Power Factor Correction



SECULIFE

Safety-, Functional & Light Testers for Medical Applications



Target Groups:

Manufacturers • Service companies • Service departments
... of portable electrical medical appliances and devices

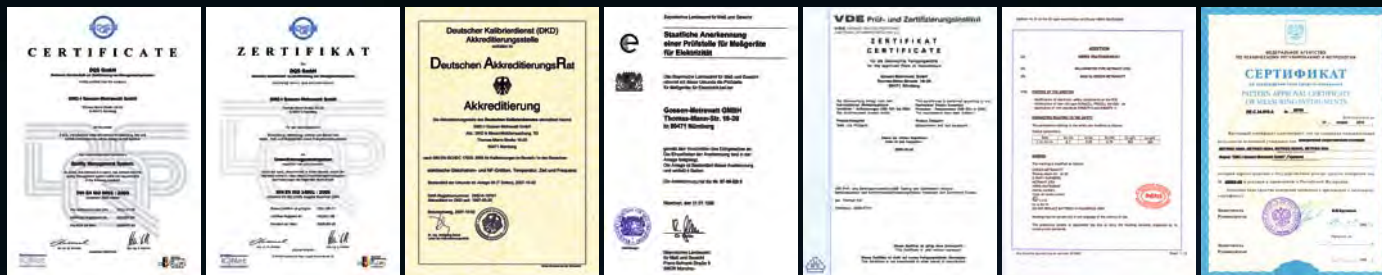
Applications

Testing the electrical safety of medical appliances and devices:

- During production and after repair, according IEC 60601
- Periodically, according IEC 62353
- Electrical safety tests to ensure SAFE operation of medical appliances
- Functional tests to ensure CORRECT operation of medical devices
- Light testers to ensure SUFFICIENT illumination in medical areas

Features

- Electrical safety tests
- Oximeter simulation
- Infusion pump analyzer
- Defibrillator analyzer
- Patient simulator
- Illumination analyzer
- Pacemaker analyzer
- HF Surgery analyzer
- Stimulation analyzer



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