

PRECISION QUALITY SAFETY

TRMS DIGITAL MULTIMETERS FOR UNIVERSAL USE IN NUMEROUS APPLICATIONS WITH DEMANDING REQUIREMENTS







TECH • XTRA • PRIME



METRAHIT AM SERIES

BASE • PRO • TECH • XTRA



Safe and Reliable Multimeters for **Diverse Applications**







METRA**HITIAM** PRO





METRAHITIPM XTRA



METRAHITIAM TECH

METRAHITIPM TECH

AM SERIES – ADVANCED MULTIMETER

TRMS Digital Multimeter with 12,000 Digits

Leading-edge technology down to the last detail: these rugged digital multimeters from the METRAHIT AM Series offer convincing, high-performance features in every respect. They're equipped with state-of-the-art technology and they assure highly precise results. Their ergonomic design provides for maximized ease of use and safety. With their broad range of functions, they're ideally suited for demanding measuring tasks in a great variety of applications.

Features

- Resolution: ±12,000 digits, 4½-place
- 3 connector jacks with patented automatic blocking sockets (ABS)
- DAkkS calibration certificate included in scope of delivery
- Large, illuminated display with 15 mm character height
- TRMS AC/DC function
- Voltage measurement with a basic accuracy of ±0.05% (V DC)
- Automatic/manual measuring range selection
- Automatic storage of measured values: DATA/MIN/MAX
- Measuring category: 1000 V CAT III and 600 V CAT IV
- V (AC, DC, AC+DC), A (AC, DC, AC+DC, with clamp), Ohm,
 °C, continuity, diode, Hz (V, A), capacitance, duty cycle



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ABS

DAkkS

Scope of Delivery

- 1 multimeter
- 1 pair of safety measurement cables (1.2 m) with 4 mm test probes, 1000 V CAT III, 600 V CAT IV (KS17-2)
- 2 batteries, 1.5 V, type AA
- 1 set of condensed operating instructions, German/English
- 1 CD ROM with operating instructions
- 1 DAkkS calibration certificate
- rubber holster (AM XTRA)



PM SERIES - PROFESSIONAL MULTIMETER

TRMS Digital Multimeter with 60,000 / 300,000 Digits

With a multimeter from the METRAHIT PM series, you get an ultramodern, top quality measuring instrument with unique precision: with resolution of up to 300,000 digits and basic accuracy of up to 0.02%, these instruments assure extremely reliable results. Thanks to their broad-ranging scope of functions, they cover an extensive spectrum of demanding measuring tasks and their ergonomic design makes it a pleasure to work with them every day.

Features

- Resolution: ±60,000/300,000 digits
- 3 connector jacks with patented automatic blocking sockets (ABS)
- DAkkS calibration certificate included in scope of delivery
- Infrared and Bluetooth interfaces (optional for PM PRIME)
- Large, illuminated display with 15 mm character height
- TRMS AC/DC function
- Voltage measurement with a basic accuracy of ±0.05% / PM PRIME 0.02 % (VDC)
- Automatic/manual measuring range selection
- Automatic storage of measured values: DATA/MIN/MAX
- Communication with a PC by means of METRAwin10 software
- Measuring category: PM TECH + XTRA 1,000 V CAT III / 600 V CAT IV, PM PRIME 600 V CAT III / 300 V CAT IV
- V (AC, DC, AC+DC), A (AC, DC, AC+DC, with clamp), Ohm, °C, dB, continuity, diode, Hz (V, A), capacitance, duty cycle



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ABS

DAkkS

Scope of Delivery

- 1 multimeter
- 1 pair of safety measurement cables (1.2 m) with 4 mm test probes, 1000 V CAT III, 600 V CAT IV (KS17-2)
- 2 batteries, 1.5 V, type AA
- 1 set of condensed operating instructions, German/English
- 1 CD ROM (multilingual operating instructions, METRAwin 10 demo software)
- 1 DAkkS calibration certificate
- 1 rubber holster
- 1 HC20 hard case (Metrahit PM TECH and XTRA)







FUNCTIONS

Function	METRAHIT AM BASE	METRAHIT AM PRO	METRAHIT AM TECH	METRAHIT AM XTRA
Clip function	•	-	•	-
Frequency measurement	100 kHz	100 kHz	100 kHz	1 MHz
Duty cycle	-	-	-	•
Temperature °C/°F	TC (K)	TC (K)	TC (K)	TC (K)/RTD
Power pack connector socket	-	-	-	•
IR interface	_	-	-	•
Data logger	-	-	-	•
VAC with low-pass filter	_	•	•	•
Rubber holster	optional	optional	optional	•
TRMS bandwidth (V _{AC})	1 kHz	10 kHz	10 kHz	20 kHz
TRMS current measurement	-	0.1 mA 10(16) A	1 μΑ 10 (16) Α	10 nA10(16) A
Capacitance measurement	_	_	•	•
Article	M241A	M242A	M243A	M240A

FUNCTIONS

Function	METRAHIT PM TECH	METRAHIT PM XTRA	METRAHIT PM PRIME	METRAHIT PM PRIME (BT)
Clip function	-	•	•	•
Frequency measurement	300 kHz	1 MHz	1 MHz	1 MHz
Duty cycle	-	•	•	•
Temperature °C/°F	TC (K)/RTD	TC (K)/RTD	TC (K)/RTD	TC (K)/RTD
Power pack connector socket	-	•	•	
IR interface	•	•	•	•
Bluetooth	-	-	-	
Data logger	_	•	•	•
VAC with low-pass filter	•	•	•	
Rubber holster	•	•	•	•
TRMS bandwidth (V _{AC})	20 kHz	100 kHz	100 kHz	100 kHz
TRMS current measurement	1 μΑ 10 (16) Α	10 nA 10(16) A	1 nA10 A (16 A)	1 nA10A (16A)
Capacitance measurement	•	•	•	•
Article	M253A	M250A	M248A	M248B









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



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



AM SERIES – ADVANCED MULTIMETER

METRAHITIAM BASE

Universal multimeter with high-impedance measuring inputs, e.g. for power utilities – current measurement with sensors only

- 12 multimeter functions
- Current measurement via current clamp sensors with adjustable transformation ratio of 1 mV:1 mA to 1 mV:1 A

METRAHITIAM PRO

Low-pass filter and low input resistance for measurements at frequency converters

- 16 multimeter functions
- Alternating voltage measurement with reduced input impedance (low impedance, 1 M0hm)
- 1 kHz/-3 dB low-pass filter can be activated
- Direct TRMS current measurement up to 16 A

METRAHITIAM TECH

Optimized current measuring range for measurements at measuring transducers in the process industry

- 20 multimeter functions
- Direct current measurement with enhanced accuracy for measurements at measuring transducers
- Broad range capacitance measurement

METRAHITIAM XTRA

System multimeter with data logger, IR interface to PC and power pack socket

- 23 multimeter functions
- Direct current measurement from 10 nA to 10 A, 16 A for short periods
- Temperature measurement with Pt100(0) resistance sensors
- Broad range capacitance measurement
- Frequency and duty cycle measurement for 2 to 5 V signals up to 1 MHz
- Data memory (15,000 measured values) and bidirectional IR interface
- Rubber holster

PM SERIES - PROFESSIONAL MULTIMETER

HIGH RESOLUTION up to 300,000 digits

METRAHITIPM TECH

Optimized current measuring ranges for measuring transducers in the process industry.

- 23 multimeter functions
- Adjustable clamp factor for measurement via current clamp sensors and transformers
- Broad range capacitance measurement
- Current ranges optimized for 4 to 20 mA measuring transducers

METRAHITIPM XTRA

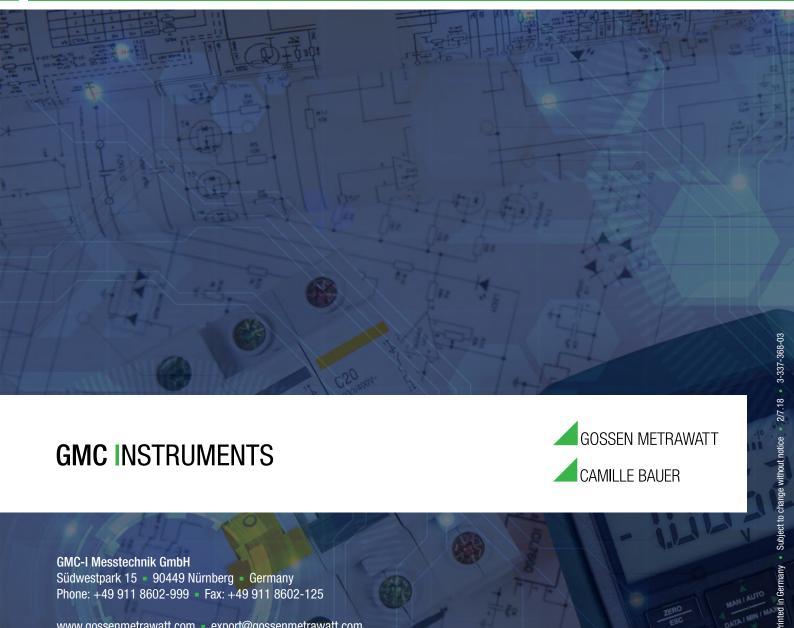
System multimeter with data logger, IR interface to PC and power pack socket plus memory for 64,000 measured values.

- 26 multimeter functions
- Direct current measurement from 10 nA to 10 A, 16 A for short periods
- Temperature measurement with Pt100(0) resistance sensors
- Broad range capacitance measurement
- Frequency and duty cycle measurement for 2 to 5 V signals up to 1 MHz
- Integrated data memory for 64,000 measured values

METRAHITIPM PRIME

Precision digital multimeter with TRMS measurement and Bluetooth option

- Resolution: 300,000 digits
- Triple display, display illumination can be activated
- 1 kHz/-3 dB low-pass filter can be activated
- Direct current measurement from 1 nA to 10 A, 16 A for short periods
- Temperature measurement with PT100/1000 resistance sensors
- Broad range capacitance measurement
- \blacksquare TRMS AC and AC + DC, 100 kHz bandwidth
- Measurement data memory for up to 300,000 measured values
- Instrument can be remote controlled via IR or Bluetooth interface (device variant M248B only)



GMC INSTRUMENTS



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