MI 3309 BT DeltaGT





Nains and battery powers to

The new MI 3309 BT DeltaGT is both battery and mains powered multifunctional instrument intended to perform measurements for testing the electrical safety of portable electrical equipment. The instrument contains unique PRCD testing technology that prevents mains RCD from tripping out while measurements are being performed. Due to dual power capability of MI 3309, the instrument can perform tests usually found on larger, heavier machines (e.g. differential leakage, touch leakage, power consumption testing etc) while still maintaining a lightweight portable design. The instrument is equipped with additional inputs for performing tests on fixed installed appliances. The handling and use of the instrument is clear and simple due to large graphical LCD screen with backlight, two PASS / FAIL LED indicators and HELP screens for each measurement. The MI 3309 can store up to 1500 test results with parameters that can be downloaded onto a PC for further data handling and creation of test report (software included in standard set). The lightweight design, pre-programmed and custom test sequences and optional QR bar-coding system make the MI 3309 an ideal instrument for high volume professional safety testing of portable appliances. The MI 3309's extended communication facility supports the use of an Bluetooth/RS232 label printer and Android/RS232 barcode scanner. In addition, the MI3309 also supports the use of an RFID scanner for reading / writing RFID tags.

THE FOLLOWING TESTS CAN BE PERFORMED:

- Functional and visual inspection; Earth bond resistance; Insulation resistance; Insulation resistance of isolated accessible conductive parts;
- Substitute leakage current; Substitute leakage current of isolated accessible conductive parts;
- Differential leakage current test;
- Touch leakage test; PRCD test;
- Power test;
- IEC cord polarity test; Leakage and load currents with current clamp; TRMS voltage meter.

KEY FEATURES:

- Graphic LCD with resolution of 128 x 64 dots, with backlight. Support for Android application. Bluetooth communication with printer, barcode scanner and PC.

- The graphic display offers easy reading of results, indications, measurement parameters and messages. Large green and red lights for additional PASS / FAIL indication placed at the sides of the LCD. Large data flash memory for storing test results & parameters (about 1500 tests with parameters can be stored in average). Two communication ports (USB and RS232C) for communication with PC, and barcode reader.
- Built-in real time clock
- OR and bar-coding system for quick test code selection and identification of device under test. Programmable limits for PASS / FAIL evaluation.
 Fully compatible with new Metrel PATLink PRO PC software package, included in standard set
- (download, view, print and export of test results).

 Optional PC SW PATLink PRO Plus (advanced test result analysis and professional test report creation)
- Portable and lightweight design.
- Rechargeable battery powered instrument with built-in charging circuit.
- The instrument can operate from mains power or batteries.

POWERFUL FUNCTIONS FOR FAST AND **EFFICIENT PERIODIC TESTING:**

- Pre-programmed test sequences:
- Fast testing with the help of barcodes;
- Test sequences can be uploaded from PC
- VDE organizer

Mobile

☑ Simple

testing

✓ Fast & accurate Complete safety

APPLICATION:

- · Professional portable appliance testing
- · General portable appliance testing
- Multi-location portable appliance testing

STANDARDS APPLIED:

Electromagnetic compatibility (EMC)

EN 61326

Safety (LVD)

EN 61010-1

EN 61010-031 **Functionality**

EN 61557

VDE 0404-1

VDE 0404-2

VDE 0701-0702 **NEN 3140**



Tehnical specifications

Earth continuity (200 mA in to 2.00Ω)

Range	Resolution	Accuracy
$0.00~\Omega \div 19.99~\Omega$	0.01 Ω	± (5 % of reading + 3 digits)
$20.0~\Omega \div 199.9~\Omega$	0.1 Ω	Indication only
200 Ω ÷ 1999 Ω	1 Ω	Indication only

Insulation resistance, Insulation - S resistance (250 VDC, 500 VDC)

Range	Resolution	Accuracy
$0.00~\text{M}\Omega \div 19.99~\text{M}\Omega$	0.01 MΩ	±/E % of reading ± 2 digita)
20.0 MΩ ÷ 49.9 MΩ	0.1 MΩ	±(5 % of reading + 3 digits)
$50.0 \text{ M}\Omega \div 199.9 \text{ M}\Omega$	0.1 MΩ	Indication only

Differential leakage current (230 VAC)

Range	Resolution	Accuracy
0.00 mA ÷ 19.99 mA	0.01 mA	±(5 % of reading + 5 digits)

Touch leakage current (230 VAC)

Range	Resolution	Accuracy
0.00 mA ÷ 7.0 mA	0.01 mA	±(10 % of reading + 5 digits)

Substitute leakage current (30 VAC)

Range	Resolution	Accuracy
0.00 mA ÷ 9.99 mA	0.01 mA	L/E 9/ of reading L 3 digital
10.0 mA ÷ 20.0 mA	0.1 mA	±(5 % of reading + 3 digits)

(P)RCD testing (10 mA, 15 mA, 30 mA)

Range	Resolution	Accuracy	
0 ms ÷ 300 ms (½xIΔN)	0.1 ms	±3 ms	
0 ms ÷ 300 ms (IΔN)	0.1 ms	±3 IIIS	
0 ms ÷ 40 ms (5xIΔN)	0.1 ms	±1 ms	

Power measurement (230 Vac)

Range	Resolution	Accuracy
0.00 kVA ÷ 4.00 kVA	0.01 kVA	±(5 % of reading + 3 digits)

Voltage TRMS measurement

Range	Resolution	Accuracy
80 ÷ 300 V	1 V	±(2 % of reading + 2 digits)

Clamp current

Range	Resolution	Accuracy
0.00 mA ÷ 9.99 mA	0.01 mA	±(5 % of reading + 10 digits)
10.0 mA ÷ 99.9 mA	0.1 mA	±(5 % of reading + 5 digits)
100 mA ÷ 999 mA	1 mA	±(5 % of reading + 5 digits)
1.00 A ÷ 9.99 A	0.01 A	±(5 % of reading + 5 digits)
10.0 A ÷ 16.0 A	0.1 A	±(5 % of reading + 5 digits)

Polarity test (<50 V AC)

General data

Power supply voltage:

Operation:

Working temperature range: Maximum relative humidity:

Display: Memory:

Communication port:

Overvoltage category: Protection classification: Protection degree: Dimensions (w x h x d): Weight:

9 VDC (6x1.5 V battery or accu, size AA), 230 VAC

10 h

0 °C ÷ 40 °C

95 % RH (0 °C ÷ 40 °C), non-condensing 128 x 64 dots matrix display with backlight

1500 memory locations

RS232 (PS/2 connector, female),

USB (connector Typ B) CAT II / 300 V Double insulation

case IP 40 /connectors IP 20 14 cm x 8 cm x 23 cm



Measuring and Regulation Equipment Manufacturer

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1 Aston Court, Town End Close, Leeds, LS13 2AF Tel.: 0113 248 9966 Web: www.test-meter-co.uk E-mail: admin@test-meter.co.uk

Ordering information:

Part No.: MI 3309 Standard set



- Instrument MI 3309 BT DeltaGT
- Soft carrying bag
- IEC cable, 2m, 2 pcs
- Test lead, black, 1.5 m
- Test lead, green, 1.5 m Test lead, brown, 1.5 m
- Crocodile clip, black
- Crocodile clip, green Crocodile clip, brown
- Test probe, black
- Test probe, green
- Test probe, brown
- PC software PATLink PRO RS232 cable
- USB cable
- Instruction manual
- Short instruction manual
- Calibration certificate
- NiMH rechargeable batteries, type AA, 6 pcs

Optional accessories:

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Photo	Order No.	Acc. description
Do	A 1302	Set of carrying straps
200	A 1303	Soft hand strap
	A 1276	Printer ONeil 2te (RS232)
11	A 1295	Labels for A 1276
	A 1328	HI-Q Labels for A 1276
1	A 1306	PC SW PATLink PRO Plus with USB and RS232-PS/2 cable
2 in	A 1203	Upgrade code PATLink PRO to PATLink PRO Plus
-	A 1105	Barcode scanner
	A 1316	Three phase adapter (16A CEE-Schucko)
	A 1317	Three phase adapter (32A CEE-Schucko)
1	A 1107	RFID reader / writer
9	A 1108	RFID tags, self-stick, 25 pcs RFID tags, key-tag, 25 pcs
.5	A 1337	RFID tags, self-stick, 50 pcs
	A 1331	Test lead with crocodile, black 1.5m
	A 1283	Leakage current clamp
	A 1433	PATLink Android
Ü	A 1450	Spare label role for S 2062
60 ,	A 1207	Three phase adapter
	S 2062	BT lable printer set

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.