# MI 3309 BT DeltaGT





### 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  $\times$  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.
- Duilt-in real time clock.

  QR 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.



- Simple
- ✓ Fast & accurate
- Complete safety testing



#### 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

### 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 $2.00 \Omega$ )

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

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

Range	Resolution	Accuracy
0.00 MΩ ÷ 19.99 MΩ	0.01 MΩ	±/F % of roading ± 2 digita)
20.0 MΩ ÷ 49.9 MΩ	0.1 MΩ	±(5 % of reading + 3 digits)
50.0 MΩ ÷ 199.9 MΩ	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 0/ of roading L 2 digita)
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 (½xlΔN)	0.1 ms	+2 ma	
0 ms ÷ 300 ms (IΔN)	0.1 ms	±3 ms	
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**

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

Operation:

0 °C ÷ 40 °C

Working temperature range: Maximum relative humidity:

Memory:

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

Display:

1500 memory locations RS232 (PS/2 connector, female),

Communication port:

USB (connector Typ B)

Overvoltage category: Protection classification:

CAT II / 300 V Double insulation

Protection degree: Dimensions (w x h x d): case IP 40 /connectors IP 20 14 cm x 8 cm x 23 cm

Weight:

1,2 kg



Measuring and Regulation Equipment Manufacturer

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# 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:**

Photo	Order No.	Acc. description
Do	A 1302	Set of carrying straps
200	A 1303	Soft hand strap
	A 1276	Printer ONeil 2te (RS232)
	A 1295	Labels for A 1276
	A 1328	HI-Q Labels for A 1276
Li	A 1306	PC SW PATLink PRO Plus with USB and RS232-PS/2 cable
	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
0	A 1108	RFID tags, self-stick, 25 pcs RFID tags, key-tag, 25 pcs
	A 1337	RFID tags, self-stick, 50 pcs
101	A 1331	Test lead with crocodile, black 1.5m
	A 1283	Leakage current clamp
	A 1433	PATLink Android
J	A 1450	Spare label role for S 2062
<b>10</b> ,	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.