

Appliance / Machine / Switchboard safety

MI 3309 BT DeltaGT



The 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. Integrated unique PRCD testing technology prevents tripping out of mains RCD during measurement. Due to dual power capability of MI 3309 it enables performing of differential leakage current test in spite of its lightweight portable design. Large graphical LCD with backlight, two PASS / FAIL LED indicators and HELP screens for each measurement make the handling of the instrument clear and simple. Up to 1500 test results with parameters can be stored in the internal memory of the instrument and then downloaded to the PC for further data handling and creation of test report. Lightweight design, pre-programmed and custom test sequences, optional barcoding, android keyboard application and RFID systems make the MI 3309 an ideal instrument for high volume professional safety testing of portable appliances.



MEASURING FUNCTIONS

- 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;
- RCD and portable RCD testing, type (K, S);
- Power test;
- IEC cord polarity test;
- Leakage and load currents with current clamp;
- TRMS voltage meter;
- Enhanced TRMS test.

KEY FEATURES

- **Autosequencing:** pre-programmable VDE compatible autosequences, up to 50 custom prepared autosequences and barcode autotests speed up testing and ensure that no tests are missed.
- **Dual powered:** the instrument can operate from mains power or batteries.
- **PASS / FAIL:** large green and red lights for

additional PASS / FAIL indication placed at the sides of the LCD.

- **Fixed appliance testing:** additional inputs and optional accessories enable testing of fixed installed appliances.
- **Scan and test:** optional QR or barcoding system and PASS / FAIL QR or barcode label printing make retesting quick and simple.
- **RFID:** support for advanced RFID identification system.
- **RCD testing:** instrument enables testing of parameters of RCDs and portable RCDs.
- **Memory:** large data flash memory allows to store up to 1500 test results and parameters for further downloading to PC.
- **Built-in charger & rechargeable batteries:** instrument has a built-in charging circuit and comes complete with a set of rechargeable NiMH batteries.
- **Bluetooth:** enables communication with PC, printers, and android devices.
- **Android application:** enables advanced data management, use of smart phones camera for scanning QR and bar-code.
- **PC SW PATLink PRO** included in the standard set enables downloading, viewing, printing of test results and exporting of data to spreadsheet applications.
- **PC SW PATLink PRO Plus** enables advanced analysis of test results, upload of pre-pro-

grammed custom autosequences and creation of professional test reports.

APPLICATION

- Professional GT safety testing;
- General GT safety testing;
- After repair GT safety testing.

STANDARDS

Functionality

- EN 61557;
- VDE 0404-1;
- VDE 0404-2;
- VDE 0701-0702;
- NEN 3140

Electromagnetic compatibility

- EN 61326

Safety

- EN 61010-1;
- EN 61010-031;

Testing to Australian Standards AS/NZS 3760

TECHNICAL DATA

FUNCTION	Measuring range	Resolution	Accuracy
PE continuity (200 mA)	0.00 Ω ... 19.99 Ω	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	Indication only
Insulation resistance (250 VDC, 500 VDC)	0.00 MΩ ... 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
	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
Substitute leakage current (30 VAC)	0.00 mA ... 9.99 mA	0.01 mA	±(5 % of reading + 3 digits)
	10.0 mA ... 20.0 mA	0.1 mA	±(5 % of reading + 3 digits)
Touch leakage current	0.00 mA ... 7.00 mA	0.01 mA	±(10 % of reading + 5 digits)
Differential leakage current	0.00 mA ... 19.99 mA	0.01 mA	±(5 % of reading + 5 digits)
Functional test: apparent power	0.00 kVA ... 4.00 kVA	0.01 kVA	±(5 % of reading + 3 digits)
RCD and portable RCD: trip-out time (IΔN= 10 mA, 15 mA, 30 mA)	0 ms ... 300 ms (½IΔN)	0.1 ms	±3 ms
	0 ms ... 300 ms (IΔN)	0.1 ms	±3 ms
	0 ms ... 40 ms (5xIΔN)	0.1 ms	±1 ms
Clamp current	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)
Voltage TRMS	80 V ... 300 V	1 V	±(2 % of reading + 2 digits)
Polarity test	Test voltage < 50 VAC		
Enhanced TRMS test (Detects: No live, active neutral reversal, N fault, PE fault, Multiple fault)			
Voltage U _{L-N} , U _{L-PE} , U _{N-PE}	80 V ... 300 V	1 V	±(2 % of reading + 2 digits)
R Loop	0.00 kΩ ... 1.99 kΩ	0.01 kΩ	±(10 % of reading + 5 digits)
GENERAL			
Power supply	6 x 1.2 V NiMH rechargeable batteries, type AA; 230 V, 50 Hz / 60 Hz		
Overvoltage category	CAT II / 300 V		
COM port	RS232, USB and Bluetooth		
Dimensions	140 x 80 x 230 mm		
Weight	1.2 kg		

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aPAT Pro Print pack



Patlink Basic Print kit

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

ORDERING INFORMATION



AU set MI3309

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

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1203	Upgrade code PATLink PRO to PATLin Pro Plus
	3PTL-20A	3 phase 20A adaptor with exposed earth for clamp
	3PTL-32A	3 phase 32A adaptor with exposed earth for clamp
	3PMA	3 phase multi adaptor for testing 4 and 5 pin sockets
	A 1472	Leakage current clamp
	A 1289	Small soft carry case
	A 1551	Medium soft carry case
	TAGCUT	Safety tag cutter
	A 1433	Patlink Android app
	A 1434	aPAT Android app
	IECCLOV	IEC to Clover Leaf Adapter
	IECFIG8	IEC to figure 8 Adapter
	INSCLOAK	Insulation Stainless Cloak