Multifunctional Portable Appliance Tester

MI 3311 GammaPAT

The MI 3311 GammaPAT is a battery powered multifunctional instrument intended to perform measurements for testing the electrical safety of portable electrical equipment. Due to large graphical LCD with backlight, two PASS / FAIL LED indicators and HELP screens for each measurement the handling of the instrument is 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 and built-in calibration unit make the MI 3311 an ideal instrument for high volume professional safety testing of portable appliances.

MEASURING FUNCTIONS

- Continuity test with 200 mA;
- Insulation resistance;
- Insulation resistance of isolated accessible conductive parts;
- Substitute leakage current;
- Substitute leakage current of isolated accessible conductive parts;
- IEC cord polarity test;
- TRMS voltage;
- Functional and visual inspection.

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.
- **Checkbox:** built-in calibration unit performs calibration of the instrument and the calibration results are automatically stored into instrument's memory.
- **PASS / FAIL:** large green and red lights of the LEDs indicate a PASS or FAIL evaluation of test result.
- **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.
- **User friendly:** large LCD screen, two Pass / Fail LED indicators, help screens and warnings make the instrument an extremely easy to use.
- **Multi-tasking:** instrument performs continuity test, 250 V and 500 V insulation tests, substitute leakage measurement, functional and polarity tests.
- **Memory:** up to 1500 test results with measuring parameters can be stored in two level memory and downloaded to the PC with the help of PC SW PATLink PRO.
- **Built-in charger & rechargeable batteries:** instrument has a built-in charging circuit and comes complete with a set of rechargeable NiMH batteries.
- **Android application:** enables advanced data management, use of smart phones camera for scanning QR and bar-code.
- **PC SW PATLink PRO** 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-programmed custom autosequences and creation of professional test reports.

APPLICATIONS

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

STANDARDS

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

Electromagnetic compatibility
- EN 61326

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

METREL®

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	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)
Voltage	0 V … 300 V	1 V	±(2 % of reading + 2 digits)
Polarity test	Test voltage < 50 VAC		
Power supply	6 x 1.2 V NiMH rechargeable batteries, type AA;		
Overvoltage category	CAT II / 300 V		
COM port	RS232, USB and Bluetooth (optional A 1436 BT dongle)		
Dimensions	140 x 80 x 230 mm		
Weight	0,86 kg		

OPTIONAL ACCESSORIES

Photo	Order No.	Description
	A 1302	Set of carrying straps
	A 1303	Soft hand strap
	A 1305	PC SW PATLink PRO with USB and RS232-PS/2 cable
	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)
	A 1107	RFID reader / writer
	A 1108	RFID tags, self-stick, 25 pcs RFID tags, key-tag, 25 pcs
	A 1331	Test lead with crocodile, black 1.5m
	A 1207	Three phase adapter
	A 1434	aPAT Link Android
	A 1488	BT Able printer, (battery or mains operated)
	A 1489	Label printer Able, with power and data cables (battery or mains operated)
	A 1520	Labels for Able pritner, (250 labels per roll)
	A 1450	Spare label role for S 2062
	A 1136	110V adapter

Photo	Order No.	Description
	S 2062	BT lable printer set
	A 1153	Test lead, black, 20 m
	A 1154	Test lead, black, 4 m
	A 1013	Crocodile clip, black
	A 1014	Test probe, black
	A 1268	Test probe, brush type, 4 mm
	A 1106	Barcode labels, 1000 pcs
	A 1337	RFID tags, self-stich 50 pcs
	A 1160	Fast charger for 8 AA batteries with a set of 6 NiMH
	A 1169	Fast charger for AA, C, D and 9 V block batteries
	A 1436	Bluetooth dongle
	A 1289	Soft carrying bag
	A 1203	Upgrade code PATLink PRO to PATLink PRO Plus
	A 1271	Small soft carrying bag

ORDERING INFORMATION

Picture of MI 3311 ST set

MI 3311 Standard set (LITE)
- MI 3311 GammaPAT
- IEC cable, 2 m
- Earth Bond Lead
- 12 V battery charging adapter
- Rechargeable NiMH AA batteries (6 pcs)
- USB cable
- Short instruction manual
- CD (containing handbook, long user manual, SW)
- Calibration certificate

MI 3311 Professional set (PRO)
- MI 3311 GammaPAT
- IEC cable, 2 m
- Earth Bond Lead
- 12 V battery charging adapter
- Rechargeable NiMH AA batteries (6 pcs)
- USB cable
- Short instruction manual
- CD (containing handbook, long user manual, SW)
- Calibration certificate
- License for PC SW PATLink PRO
- License for PATLink Android

METREL ®