Selection Guide for Multifunctional Testers

Part No.		MI 3105 (EU)	MI 3101	MI 3102H
		EurotestXA	EurotestAT	EurotestXE 2.5kV
Features	Description			
INSULATION	Insulation resistance	✓	✓	✓
	Test voltage (V_{DC})	50 … 1000	50 … 1000	100 … 2500
	Autotest insulation L-PE, N-PE, L-N	✓	✓	–
	Diagnostic test (PI, DAR calculation)			✓
CONTINUITY AND LOW RESISTANCE MEASUREMENT	Contunuity of PE conductors with automatic polarity change, test current 200 mA	✓	✓	✓
	Low resistance measurement (continuous measurement), test current 7 mA	✓	✓	✓
LINE / LOOP IMPEDANCE	Line impedance with Ipsc calculation	✓	✓	✓
	Loop impedance with Ipsc calculation	✓	✓	✓
	RCD Trip Lock loop impedance	✓	✓	✓
	Built-in fuse tables for PASS / FAIL evaluation	✓	✓	✓
RCD TESTING	Contact voltage measurement without RCD tripping	✓	✓	✓
	RCD trip-out time	✓	✓	✓
	RCD trip-out current with rising test current	✓	✓	✓
	Automatic testing of RCDs	✓	✓	✓
	RCD type (general and selective)	A, AC, B	A, AC, B	A, AC
VOLTAGE, FREQUENCY	AC voltage measurement	✓	✓	✓
	Online voltage monitor	✓	✓	✓
	Frequency measurement	✓	✓	✓
PHASE SEQUENCE	L1 - L2 - L3	✓	✓	✓
EARTH MEASUREMENTS	Earth resistance 3-(4-)wire method	✓	✓	✓
	Earth resistance 3-(4-)wire method with additional current clamp	✓	–	–
	Earth resistance measurement with 2 current clamps	Option	–	–
	Specific earth resistance	Option	Option	–
AUTO SEQUENCE	Automatic installation safety testing on Switchboards and Circuts	✓	✓	–
OTHER MEASUREMENTS	TRMS leakage / load current	✓	–	Option
	Illuminance measurement	Option	–	Option
	Varistor test	✓	✓	–
	Fuse / fault locator	Option	Option	–
	High resolution loop impedance (mΩ)	Option	Option	–
	Insulation Monitoring Devices (IMD) testing (IT systems)	✓	–	–
OTHER FEATURES	Nominal frequency range	14 … 500 Hz	14 … 500 Hz	45 … 65 Hz
	PASS / FAIL evaluation of test results	✓	✓	✓
	IT earthing mode systems support	✓	✓	–
	Low voltage supply systems support	✓	✓	–
	Touch electrode	✓	✓	✓
	HELP menu	✓	✓	✓
COMMUNICATION PORTS	RS232	✓	✓	✓
	USB	✓	✓	✓
MEMORY SOFTWARE	Number of memory levels / memory locations	10 / 2000	10 / 2000	3 / 500
	Professional PC SW	✓	✓	✓
	Advanced PC SW	✓	Option	–
GENERAL DATA	Safety category	CAT III / 600 V CAT IV / 300 V	CAT III / 600 V CAT IV / 300 V	CAT III / 600 V CAT IV / 300 V
	Batteries	6 x AA	6 x AA	6 x AA
	Built-in battery charger	✓	✓	✓
	Wieght (kg)	1.37	1.32	1.31
	Dimensions (mm)	230 x 103 x 115	230 x 103 x 115	230 x 103 x 115

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MI 3102	MI 3100	MI 3125B	MI 3125	MI 2086 (EU)	MI 2087	MI 2088
EurotestXE	EurotestEASI	EurotestCOMBO	EurotestCOMBO	Eurotest 61557	Instaltest 61557	Earth Insulation
✓	✓	✓	✓	✓	✓	✓
100 … 1000	100 … 1000	50 … 1000	50 … 1000	50 … 1000	50 … 1000	50 … 1000
–	–	–	–	–	–	–
–	–	–	–			
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	–	✓	✓	✓
✓	✓	✓	✓	✓	✓ (R)	–
✓	✓	✓	✓	✓	✓ (R)	–
✓	✓	✓	✓	✓ (R)	–	–
✓	✓	✓	✓	–	–	–
✓	✓	✓	✓	✓	✓	–
✓	✓	✓	✓	✓	✓	–
✓	✓	✓	✓	✓	✓	–
✓	✓	✓	✓	✓	✓	–
A, AC	A, AC	A, AC, B	A, AC	A, AC	AC	–
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	–	–	–
✓	✓	✓	✓	✓	✓	–
✓	✓	✓	✓	✓	✓	–
✓	–	✓	–	✓	–	✓
–	–	–	–	✓	–	Option
–	–	–	–	Option	–	Option
–	–	–	–	✓	–	✓ (without ρ adapter)
–	–	–	–	–	–	–
Option	–	–	–	✓	–	Option
Option	–	–	–	Option	Option	–
–	–	–	–	✓	✓	✓
–	–	–	–	Option	Option	–
–	–	–	–	Option	–	–
✓	–	–	–	–	–	–
45 … 65 Hz	45 … 65 Hz	45 … 65 Hz	45 … 65 Hz	45 … 65 Hz	45 … 65 Hz	45 … 65 Hz
✓	✓	✓	✓	–	–	–
✓	✓	–	–	–	–	–
✓	✓	–	–	–	–	–
✓	✓	✓	✓	✓	–	–
✓	✓	✓	✓	✓	–	–
✓	–	✓	–	✓	✓	✓
✓	–	✓	–	Option	Option	Option
3 / 500	–	3 / 1700	–	3 / 3000	2 / 1000	2 / 1000
✓	–	✓	–	✓	✓	✓
Option	–	Option	–	✓	–	–
CAT III / 600 V CAT IV / 300 V	CAT III / 600 V CAT IV / 300 V	CAT III / 600 V CAT IV / 300 V	CAT III / 600 V CAT IV / 300 V	CAT III / 300 V CAT II / 600 V	CAT III / 300 V CAT II / 600 V	CAT III / 300 V CAT II / 600 V
6 x AA	6 x AA	6 x AA	6 x AA	4 x C	4 x C	4 x C
✓	✓	✓	✓	–	–	–
1.31	1.31	1.0	1.0	2.1	1.8	1.7
230 x 103 x 115	230 x 103 x 115	140 x 80 x 230	140 x 80 x 230	265 x 110 x 185	265 x 110 x 185	265 x 110 x 185

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