

Other instruments / Adapters / Accessories

A 1322 and A 1422 Active 3-phase Adapter

Appliance / Machine / Switchboard safety



Metrel's A 1322 Multifunctional test adapter is designed for troubleshooting, as well as for periodic testing on 3-phase appliances and machinery. Unique functions such as, active polarity testing, differential leakage testing and testing of 3-phase RCD's make the A 1322 Active 3-phase Adapter an ideal instrument for advanced applications. The A 1422 adapter is designed for use alongside the MI 3325 MultiServicerXD, MI 3360 OmegaGT series, and MI 3365 OmegaEE XD series, enabling functional tests to be carried out on machines up to 40 A. Several test socket outlets make this instrument an ideal tester for testing industrial extension leads that may also be RCD protected. The A 1422 Multifunctional test adapter has complete support for testing of Arc Welding Equipment in accordance to EN 60974-4 and VDE 0544-4.

KEY FEATURES

- Testing of Open-Circuit Voltage at ARC Welding Units in accordance to EN 60974-4 (A 1422 only);
- All tests on 3-phase electrical equipment can be carried out, including live leakage test, power, polarity, RCD and Active polarity;
- Simple connection to the GT/MACHINE tester with automatic detection;
- Simple test procedures, identical to single phase equipment;
- Test sequence for 3-phase tests are automatically set, based on entered test codes and input voltages;
- Built-in CEE 3-PH/32A 5 pin, CEE 3-PH/16A 5 pin and CEE 1-PH/16A 3 pin test sockets;
- Instrument comes complete with all accessories necessary for comfortable measurements and kept in a robust waterproof case.

APPLICATION

- Testing of single and 3-phase ARC Welding equipment (A 1422 only);
- Professional 3-PH portable appliance testing;
- Professional 3-PH machine testing.

STANDARDS

Functionality

- IEC/EN 60974-4 (VDE 0544-4), (A 1422 only)
- EN 50699
- EN 50678
- VDE 0701-0702
- IEC/EN 60204-1 Ed.5 (VDE 0113-1)
- IEC/EN 61439-1 (VDE 0660-600-1)
- AS/NZS 3760
- NEN 3140
- IET COP 5th Ed

Electromagnetic compatibility

- EN 61326-1

Safety

- EN 61010-1
- EN 61010-031

TECHNICAL DATA

FUNCTION	Measuring range	Resolution	Accuracy
Differential leakage current (230/400 VAC or 120/208 VAC)	0.00 mA ... 9.99 mA	0.01 mA	±(5 % of reading + 5 digits)
Power / Functional test (230/400 VAC or 120/208 VAC)	0.00 kVA ... 24.29 kVA	0.01 kVA	±(5 % of reading + 5 digits)
Active power readout	0.00 kW ... 24.29 kW	0.01 kW	±(5 % of reading + 5 digits)
Reactive power readout	0.00 kVAr ... 24.29 kVAr	0.01 kVAr	±(5 % of reading + 5 digits)
Power factor readout	0.00 ... 1.00	0.01	±(5 % of reading + 5 digits)
3-phase RCD / Test current (10 mA, 15 mA, 30 mA, 100 mA, 300 mA)	0 ms ... 300 ms ($\frac{1}{2} \times I_{\Delta N}$, $I_{\Delta N}$)	1 ms	±3 ms
Type (AC, A, B)	0 ms ... 150 ms (2 x $I_{\Delta N}$)	1 ms	±3 ms
	0 ms ... 40 ms (5 x $I_{\Delta N}$)	1 ms	±3 ms
Portable RCD trip-out current readout (B type PRCD)	0.2 x $I_{\Delta N}$... 2.2 x $I_{\Delta N}$	0.05 x $I_{\Delta N}$	±0.1 x $I_{\Delta N}$
Power supply	230 V ±10 %		
Overvoltage category	CAT II / 300 V		
Protection class	I		
COM port	RS232		
Dimensions	335 x 160 x 335 mm		
Weight	7.2 kg		
A 1422 (only)			
Welding circuit leakage current; Primary leakage current readout	0.00 mA ... 14.99 mA	0.01 mA	±(5 % of reading + 5 digits)
No load voltage readout; (AC peak or DC peak)	0.0 A ... 199.9 mA	0.1 A	±(5 % of reading + 5 digits)
(AC RMS)	0.0 A ... 139.9 mA	0.1 A	±(5 % of reading + 5 digits)

KEY FEATURES

A 1322 and A 1422	MI 3365	MI 3360	MI 3325
Earth bond / continuity resistance 200 mA	•	•	•
Earth bond / continuity resistance 4A / 10A / 25 A	- / • ¹ / • ¹	- / • ¹ / • ¹	• / • / •
Insulation resistance	•	•	•
Insulation resistance - s	•	•	•
Substitute leakage current	•	•	•
Substitute leakage - s	•	•	•
Differential leakage current	•	•	•
3-phase differential leakage current	•	•	•
Touch leakage current	•	•	•
Polarity test	•	•	•
Active polarity test	•	•	•
3-phase polarity test / 3-phase active polarity test	•	•	•
P/RCD test, type (AC, A, B)	•	•	•
3-phase P/RCD test, type (AC, A, B)	•	•	•
Power / functional test (P, S, Q)	•	•	•
3-phase power / functional test (P, S, Q)	•	•	•
A 1422 (only)			
Continuity test (according to IEC/ EN 60974-4)	•	•	•
Insulation resistance (according to IEC/ EN 60974-4)	•	•	•
Leakage current (according to IEC/ EN 60974-4)	•	•	•
No load voltage (according to IEC/ EN 60974-4)	•	•	•

¹ MI 3360/MI 3365 25A, M, F

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ORDERING INFORMATION



Picture of MI 1422 set

Standard set

A 1322

- Active 3-Phase Adapter
- Bag for accessories
- Connection cable between Adapter and Instrument
- 3-phase mains cable 16 A male / 32 A female, 5 pin, 2 m
- RS232 cable
- Instruction manual, short instruction manual
- Calibration certificate

A 1422

- Test lead, 1.5 m, (blue, red)
- Test probe, (blue, red)

OPTIONAL ACCESSORIES

Photo	Part No.	Description	A 1322	A 1422
	A 1373	3-phase mains cable / adapter 32 A male / 32 A female, 5 pin, 2 m	•	•
	A 1375	1-phase mains cable / adapter 32 A / 16 A Schuko, 3 pin, 2 m	•	•
	A 1376	3-phase adapter 16 A male / 16 A female, 5 pin, 2 m	•	•
	A 1394	1-phase adapter 16 A male / 16 A female, 3 pin, 2 m	•	•
	A 1418	1-phase adapter 16 A, 3 pin female / 16 A Schuko male, 2 m	•	•
	A 1419	1-phase adapter 16 A, 3 pin male / 16 A Schuko female, 2 m	•	•
	A 1423	Adapter for welding equipment, fi 14/ CX20		•
	A 1424	Adapter for welding equipment, fi 21/ CX22		•
	A 1425	Adapter for welding equipment, fi 21/ CX25		•

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