

# A 1322 Active 3-phase Adapter



- 3-phase P/RCD testing type (AC, A, B) type (P/RCD-S, P/RCD-K)
- 3-phase active polarity (P/RCD protected extension leads)
- 3-phase power testing (kVA, kW, kVA<sub>r</sub>, Cos φ)
- 3-phase differential leakage



Metrel's all new 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 1322 adapter is designed for use alongside the MI 3321 MultiservicerXA and the MI 3310/MI 3310A SigmaGT 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 test results and parameters can be saved into the large built-in memory for further downloading, analysis and the test report printing with the help of the PC SW PAT Link PRO that is provided with both supporting test instruments.

## POWERFUL FUNCTIONS FOR FAST AND EFFICIENT PERIODIC TESTING:

	MI 3310/MI 3310A	MI 3321
Earth bond / continuity resistance	✓	✓
Continuity (single / auto)	✗	✓
Insulation resistance	✓	✓
Insulation resistance – s	✓	✓
High voltage test	✗	✓
Loop impedance and prospective fault current	✗	✓
Discharging time	✗	✓
Voltage, frequency, three-phase rotary field	✗	✓
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	✓	✓
Clamp current test	✓	✓
P/RCD test	✓	✓
3-phase P/RCD test	✓	✓
Power / functional test	✓	✓
3-phase power / functional test	✓	✓

## KEY FEATURES:

- 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 PAT/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-phase/32 A 5-pin, CEE 3-phase/16 A 5-pin and CEE 1-phase/16 A 3-pin test sockets.
- Instrument comes complete with all accessories necessary for comfortable measurements and is kept in a robust waterproof case.

## APPLICATION:

- Professional 3-phase portable appliance testing
- Professional 3-phase machine testing

## STANDARDS APPLIED

Electromagnetic compatibility (EMC):  
EN 61326-1  
Safety (LVD):  
EN 61010-1; EN 61010-031  
Functionality:  
VDE 0404-1; VDE 0404-2; VDE 0701-0702;  
EN 60204-1 Ed.5; EN 60439; EN 61439-1;  
AS / NZS 3760; NEN 3140

# Technical specifications

## Differential leakage current (230/400 V<sub>AC</sub> or 120/208 V<sub>AC</sub>)

Differential leakage current readout

Range	Resolution	Accuracy
0.00 mA ÷ 9.99 mA	0.01 mA	±(5 % of reading + 5 digits)

## Power / Functional test (230/400 V<sub>AC</sub> or 120/208 V<sub>AC</sub>)

Apparent power readout

Range	Resolution	Accuracy
0.00 kVA ÷ 24.29 kVA	0.01 kVA	±(5 % of reading + 5 digits)

Active power readout

Range	Resolution	Accuracy
0.00 kW ÷ 24.29 kW	0.01 kW	±(5 % of reading + 5 digits)

Reactive power readout

Range	Resolution	Accuracy
0.00 kVAr ÷ 24.29 kVAr	0.01 kVAr	±(5 % of reading + 5 digits)

Power factor readout

Range	Resolution	Accuracy
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)

Portable RCD trip-out time readout (AC and A type PRCD)

Range	Resolution	Accuracy
0 ms ÷ 300 ms (½ x I <sub>ΔN</sub> , I <sub>ΔN</sub> )	1 ms	±3 ms
0 ms ÷ 150 ms (2 x I <sub>ΔN</sub> )	1 ms	
0 ms ÷ 40 ms (5 x I <sub>ΔN</sub> )	1 ms	

Portable RCD trip-out current readout (B type PRCD)

Range	Resolution	Accuracy
0.2 x I <sub>ΔN</sub> ÷ 2.2 x I <sub>ΔN</sub>	0.05 x I <sub>ΔN</sub>	±0.1 x I <sub>ΔN</sub>

**Polarity test Standard test** (<60 V<sub>AC</sub> and DC)

**Polarity test Active** (Mains supply voltage, over-current protection)

# General data

Supply voltage single-phase	230 V ±10 %
Supply voltage 3-phase	230/400 V ±10 % 120/208 V ±10 %
Maximum test current	32 A, 40 A max (10 min)
Overvoltage category	CAT II / 300 V
Protection classification	I
Pollution degree	2
Protection degree	IP 65 (closed and locked cover) / IP 20 (connectors)
Case	Shock proof plastic, portable
Dimensions (w x h x l)	335 mm x 160 mm x 335 mm
Weight (without accessories)	7.2 kg
Operation conditions	
Working temperature range	0 °C ÷ 40 °C
Maximum relative humidity	85 %RH (0 °C ÷ 40 °C), non-condensing

## Ordering information:

Standard set

Part No. A 1322



- Instrument A 1322
- Bag for accessories
- Measuring / 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

## Optional accessories:

Photo	Order No.	Acc. description
	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



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