技术咨询和询价:010-68940148

# PAT300 series PAT320 PAT350

# **Portable Appliance Testers**



- Simple manual or automatic testing
- Bond testing at 25 A, 10 A and 200 mA
- Differential, touch and substitute leakage testing
- **■** Full colour display
- Tests portable RCDs and extension leads
- Pre-set test sequences for Class I, Class II and extension leads
- Flash Testing at 1.5 kV and 3 kV
- Tests to DIN VDE 0701-0702

## 康高特-MEGGERPAT320 PAT350电气设备测试仪 DESCRIPTION

An easily portable desktop appliance tester for testing the safety of portable electrical equipment to meet health and safety regulations. The PAT300 series are fully featured testers with dedicated test buttons for direct access to tests. They are designed for customers who do not require the complexity of a fully configurable database of clients and results within the tester but do need a complete range of functions to allow automatic or manual testing of the widest range of electrical assets. There are two products in the range - the PAT320 and the PAT350. The PAT350 is identical to the PAT320, with the addition of flash-test capability for use in environments such as manufacturing, production or tool-hire shops.

Simple push-button operation make the PAT300s fast and intuitive in use. All regulatory test requirements are supported, including Class I and Class II, IEC power leads, extension leads and full tests for portable RCDs. An automatic mode is available for Class I and Class II testing. In automatic mode, the tests proceed sequentially through bond, insulation and operation, indicating a pass or fail at each test. If a fail occurs, testing is stopped. When manual testing, each test is preceded by a selection screen where the test parameters are selected, such as bond test current, insulation test voltage or leakage test type. These diagnostic buttons provide direct access to any test individually, allowing single tests to be performed following repair or a suspect result.

Accessories supplied with all models include a combined earth-bond and insulation test lead, an adaptor for testing extension leads, and a carry-case convenient product and lead storage.

# 康高特-MEGGERPAT320 PAT350电气设备测试仪 APPLICATION

There is a legal requirement for any landlord, employer or owner of a place of work or public place, to ensure that all electrical equipment accessible by tenants, employees or the public is maintained in a safe condition, and an acceptable method of ensuring this is by routine electrical testing. This can be performed by electrical contractors, specialist PAT testing organisations, maintenance departments, or facilities management companies.

The PAT300 range is suitable for performing portable appliance testing in locations such as hotels, public houses, schools, colleges, nurseries, shops, offices, theatres, banks, restaurants, cafés, sports and leisure facilities, cinemas, factories and hair salons etc. The PAT350 is suitable for use in tool-hire shops where equipment is routinely tested prior to hire, and will perform a flash test in addition to standard PAT tests

# Megger.

#### **SPECIFICATIONS**

## **Electrical supply range**

230 V ±10% ±1 V @ 50 Hz ±10% ±0.1 Hz

Instrument accuracy cannot be guaranteed when operated on supply frequencies other than those specified above

#### **Bond test**

(10 A and 25 A)

# Open circuit voltage:

9 V a.c. ±10% ±0.1 V (Supply: 230 V 50 Hz)

# Earth bond resistance accuracy:

 $\pm 5\% \pm 3$  digits (0 to 0.49  $\Omega$ )  $\pm 5\% \pm 5$  digits (0.5 to 1.99  $\Omega$ )

# Earth bond resistance resolution:

10 m $\Omega$  (0 to 1.99  $\Omega$ )

Display range: 10 to 1.99  $\Omega$ 

## Continuity

## Continuity test voltage:

4.0 V d.c. -0% +10

#### Continuity resistance accuracy:

 $\pm$ 5%  $\pm$ 3 digits (0 to 0.49 Ω)  $\pm 5\% \pm 5$  digits (0.5 to 19.99  $\Omega$ )

# Continuity resistance resolution:

10 mΩ (1 to 19.99 Ω) Display range: 0 to 19.99  $\Omega$ 

## **Insulation test**

(250 V and 500 V)

# Insulation resistance accuracy (230 V):

 $\pm 2\% \pm 5$  digits (0 to 19.99 M $\Omega$ )  $\pm 5\% \pm 10$  digits (20 to 99.99 M $\Omega$ ) Insulation resistance resolution:

0.01 MO

Display range: 0 to 99.99 M $\Omega$ 

## Substitute leakage current

Test voltage and frequency: 40 V a.c. ±10% @ nominal mains

frequency

Leakage current accuracy: ±5% ±5 digits Leakage current resolution: 0.01 mA

Display range: 0 to 19.99 mA

# Leakage current

Test voltage: Nominal mains supply

Differential leakage current accuracy:  $\pm 5\% \pm 5$  digits Differential leakage current resolution: 0.01 mA

Display range: 0 to 19.99 mA

## Touch current test

Test voltage: Nominal main supply Touch current accuracy: ±5% ±5 digits Touch current resolution: 0.01 mA Display range: 0.00 to 10 mA

# **Operational test**

Test voltage: Nominal mains supply.

VA Accuracy:

±5% ±10 digits (0 to 99 VA) ±5% ±50 digits (100 VA - 999 VA) ±5% ±100 digits (1000 VA - 3700 VA) Resolution: 1 VA (0 to 3700 VA) Display range: 0 to 3.99 KVA

## **Ext Lead Test**

Test performed: Bond insulation and polarity.

Polarity test voltage: 12 V dc

Polarity: Lead OK Live neutral S/C Live neutral reversed Live/neutral O/C

## Flash test

## (PAT350)

## Flash test voltage:

1500 V a.c nominal for Class I 3000 V a.c nominal for Class II

#### Flash test current:

< 3.5 mA short circuit @ 253 V primary supply voltage

Flash test breakdown current accuracy:

±5% ±5 digits

## Flash test breakdown current resolution:

0.01 mA

Display range: 0 to 3.0 mA

#### **RCD** tests

**RCD test voltage and frequency:** Nominal mains supply

Test current accuracy: -8% to -2% (1/2 x I) +2% to +8% (1 x I,5 x I)

Trip time accuracy: ±1% ±5 digits Trip time resolution: 0.1 ms

Display range: 0 to 1999 ms (1/2 x I) 0 to 300 ms (1 x I) 0 to 40 ms (5 x I)

## **Fuse Test**

Test voltage: 3.3 V

Warning: Audible beep if fuse is OK

# Operating temperature range -10 to +50 °C

and humidity

90% RH @ -10 to +30 °C 75% RH @ +30 to +50 °C

-20 to +60° C

Storage temperature range and humidity

90% RH @ -10 to +30 °C 75% RH @ +30 to +50 °C

Weight PAT310 (with packaging) 3.2 kg

PAT320 (with packaging) 4.9 kg PAT350 (with packaging) 5.5 kg

210 mm (H) x 280 mm (W) x 390 Dimensions

mm (L)

**Dimensions (instrument and** 

case)

PAT310 120 mm (H) x 255 mm

(W) x 320 mm (L)

PAT320

155mm (H) x 255 mm (W) x 320

mm (L) PAT350

155mm (H) x 255 mm (W) x 320

mm (L)

Maximum altitude 2,000 m

IP rating IP40

# **M**egger.

**Safety** IEC 61010-1: CAT II 300V

**EMC** IEC 61326-1: 2006

IEC 61326-2-2: 2005.

Description Order C		Description	Order Code
PAT310-EU	1000-742	Optional accessories	
PAT350-EU	1000-953	Plug adaptor IEC C6 - C13	1001-232
Included accessories		415 V adaptor lead (4-pin) to SC (CEE7/7) (16 A)	1000-768
Printed quick start guide		415 V adaptor lead (5 pin) to SC (CEE7/7) (16 A)	1000-771
Full user guide on CD		Roll of 1000 FAIL test labels	1001-227
Calibration certificate		Roll of 1000 PASS test labels	1000-971
Continuity/earth bond lead	1001-233	PAT accessory pouch	2001-044
Extension lead adaptor Schuko	1001-235	PAT test certificate book	1001-299
Flash test lead	5310-401	Screen protector (2)	1002-572
Carry case with lead/document pouch	2000-962		