



PAT100 Series Portable Appliance Tester

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Thank you for purchasing the Megger portable appliance tester.

For your own safety and to get the maximum benefit from your instrument, please ensure that you read and understand the safety warnings and instructions before attempting to use the instrument.

These instruments are designed and manufactured by:

Megger Instruments Limited Archcliffe Road Dover Kent CT17 9EN England

Megger Instruments Limited reserves the right to change the specification of these instruments at any time without prior notice.

Unpacking the carton

Unpack the carton contents carefully. There are important documents that you should read and keep for future reference.

Please complete the pre-paid warranty card and return it to Megger Limited as soon as possible to help us reduce any delays in supporting you should you need assistance.







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Safety Warnings

The following Safety Warnings and Precautions must be read and understood before the instrument is used. They must be observed during use.

- Only use test leads and accessories supplied or approved by Megger Instruments Limited
- At any time the A symbol or A symbol is displayed, the user guide and warnings documentation must be consulted to identify the nature of the hazard and any actions necessary to avoid the hazard
- Do not use the instrument if there are any signs of damage
- This instrument meets the EMC requirements of Class A applications. Not for use in domestic installations
- All test leads, probes and clips must be in good order, clean and with no broken or cracked insulation
- Probes and clips should be held behind the finger guard
- Test leads not used during a measurement should be disconnected from the Appliance tester
- During testing, ensure no hazard will exist as a result of normal running or under fault conditions
- During testing the unit under test (appliance) should not be touched, other than using the appropriate accessories, as faulty appliances can present a shock hazard
- Do not touch the exposed parts of test leads during tests as hazardous voltages may be present
- Do not intentionally connect test leads to live systems or hazardous voltages
- Do not touch the IEC extension lead socket pins especially during a test, as hazardous voltages may be present due to a potentially faulty appliance
- Do not touch the exposed earth pins of the 230 V test socket during a test, as voltages may be present due to a potentially faulty appliance
- Serviceable fuses should only be replaced with those that are suitably rated
- Replacement fuses must be of the correct rating and type. Refer to page 33
- If this instrument is used in a manner not specified in the supplied documentation, the protection provided by the instrument may be compromised

PAT150

- For safety, only connect the PAT to a supply that is properly earthed. If in doubt, the supply should be checked by a qualified electrician
- Only perform a mains powered leakage test after the Earth bond and insulation tests have been completed, as this test operates at mains voltage
- During mains powered leakage tests the appliance under test will operate. Make sure the appliance is safely secured to ensure no damage or danger is possible
- A yearly calibration is recommended with interim checks on measurement accuracy to ensure no equipment can be left in a hazardous live condition through incorrect readings
- Only use a Megger approved PAT100 charger. Other chargers may present a fire risk
- Do not connect the battery charger to the PAT150R whilst running a test
- During testing make sure that the shutter covers the battery charger port. There is a risk of electrocution from exposed terminals. Do not touch any exposed terminals or probe tips during test
- Always remove the mains plug test lead from the mains supply AND the instrument when not in use

Product Safety Category

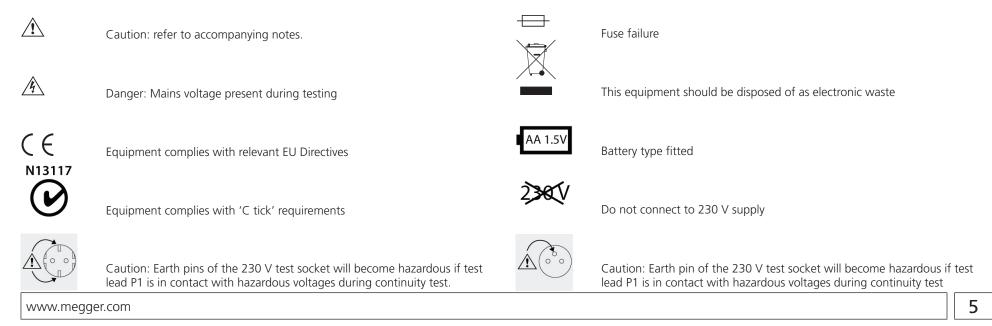
CATII 300 V - MEASUREMENT CATEGORY II Equipment connected between the electrical outlets and the user's equipment.

230 V ac powered Leakage testing: Connecting the PAT150 to a 230 V ac supply will automatically switch the leakage tests from a 40 V ac test to a mains powered 230 V ac test. Any leakage testing performed with 230 V ac connected will operate the equipment under test. Ensure the equipment under test is properly secured and in a safe condition prior to running a 230 V ac leakage test

WEEE DIRECTIVE

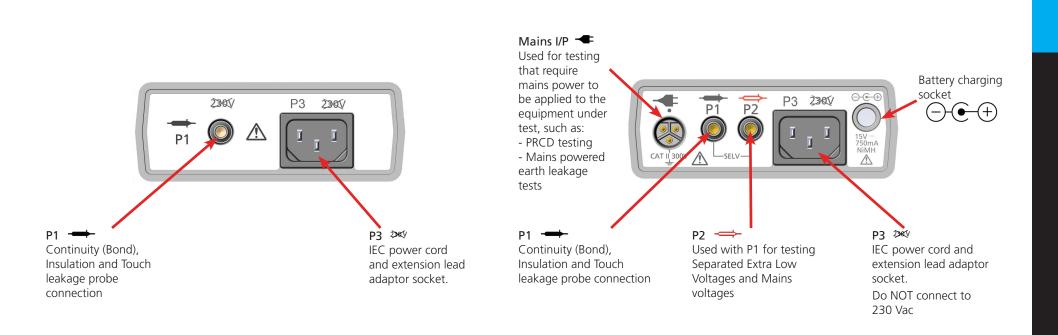
The crossed out wheeled bin symbol placed on Megger products is a reminder not to dispose of the product at the end of its life with general waste. Megger is registered in the UK as a Producer of Electrical and Electronic Equipment. The Registration No is WEE/HE0146QT For further information about disposal of the product consult your local Megger company or distributer or visit your local Megger website.

Symbols used on the instrument



Symbols used on the connection panel

PAT120 connector panel



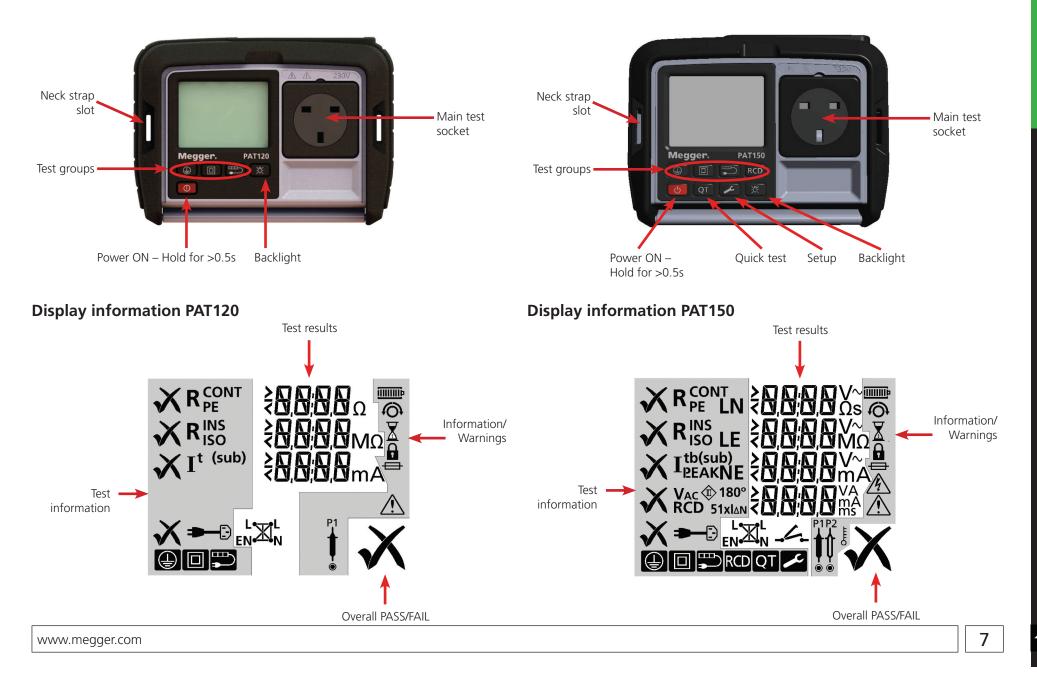
PAT150 connector panel

A Do NOT connect P1 and P3 sockets to hazardous live voltages

A Do NOT connect P1, P2 and P3 sockets to hazardous live voltages

Instrument Layout PAT120

Instrument Layout PAT150



Measurement (display) symbols PAT120 & PAT150

R <mark>cont</mark> pe	Continuity of the protective earth conductor	X	Test in progress
R <mark>ins</mark> Iso	Insulation resistance between the Live/Neutral conductors and earth		Measurement locked ON
т	Alternative method:- 40 V ac leakage test for protective	Â	Notice: Refer to user guide
I _{EA}	conductor current and touch current. Battery powered test	Ω	Resistance in ohms
I _(sub)	(English language models) Alternative method:- 40 V ac leakage test for for protective	ΜΩ	Insulation resistance in Meg Ohms (ohms x 1x10 ⁶)
■ LEAK	conductor current. Battery powered test	mA	Leakage current in milliamps
I ^t (sub)	(English language models) Alternative method:- 40 V ac leakage test for for touch current. Battery powered test	L∙—•L N•—•N	Cable polarity correct
	Power lead or Extension lead polarity test	L N•×L	Live to Neutral cross polarity
P1 ∎ ⊛	Test probe P1 to be connected	L∙—• N•—•	Live to Neutral short circuit detected
\checkmark	Test or overall test group passed	E ••	Live to Earth short circuit detected
Χ	Test or overall test group failed	L• •L N• •N	Open circuit detected
	Fuse failed	\.	General warning - Appliance open circuit or not switched on

PAT150 only

RCD	Residual current device test mode	P2 ↓ ●	Test Probe P2 to be connected				
0° 180°	0° - Positive edge test current 180 ° - Negative edge test current	щo	Instrument hot, allow to cool				
1xIAN	$1 \times I\Delta n =$ the rated operating current of the RCD	$\widehat{\mathbf{O}}$	Lead null active				
5xl∆N	$5 \times I\Delta n = 5$ time the rated operating current of the RCD	<u>Å</u>	Warning: Hazardous voltages present				
V~	Volts AC	\bigcirc	P1 test lead null set				
S	Seconds	0	Extension lead adaptor lead null set				
ms	Thousandths of a second	I _{pe} I _{leak}	Earth leakage current measured using the differential/residual method				
1:1	RCD – Press TEST or RESET	LN	Phase to Neutral voltage				
t B	Touch current measured with P1 test probe using the direct method	NE	Neutral to Earth Voltage				
LE	Phase to Earth voltage	V ас 🕸	Separated Extra-Low Voltage measurement				
Vac	Volts AC (measurement function)	R ^{cont} ≁	(English language models) Fixed installation equipment continuity test				
¢	Repeat continuity test	R _{pe} ≁	Fixed installation equipment continuity test				

NOTE: The PAT100 instruments perform various pre-checks prior to testing to ensure the asset is not short-circuit and is switched on

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Instrument Buttons

User guide INSTRUCTION symbols



Power button - Hold down for 0.5 second to switch on, Hold down for 2 seconds to switch off Abort button - press to stop test or exit a setup mode



Class I button



Class II button



Extension lead button



Quick test button



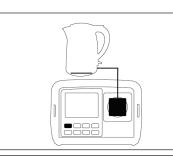
RCD test button



Setup button – allows access to PASS limits, test times and lead null option



Backlight button



Connect the equipment to be tested to the instrument



Connect the Instrument to the mains supply using the mains plug test lead (for mains powered leakage and RCD testing)



Press the button

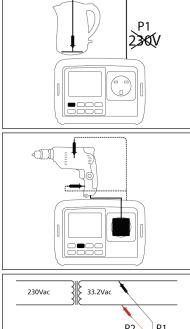


Press and hold for greater than 0.5 seconds



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Carry strap fitting and removal



Connect the P1 test lead to socket P1 on the Pat100 and the probe to exposed metalwork Ensure the probe is NOT connected to a 230V source.

Connect the P1 test lead to different conductive points on the equipment under test during the measurement

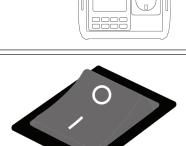
Removing carry strap:



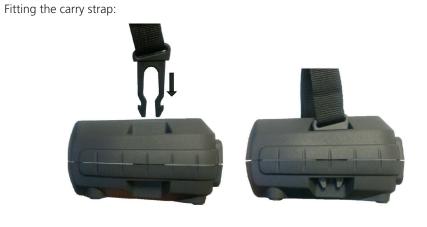
Connect both the P1 and P2 test leads to the circuit to be measured



Ensure equipment under test is switched ON



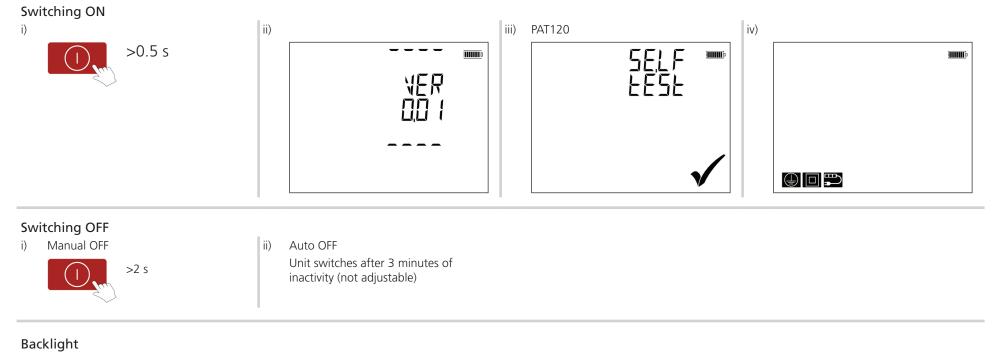
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Switching ON / OFF



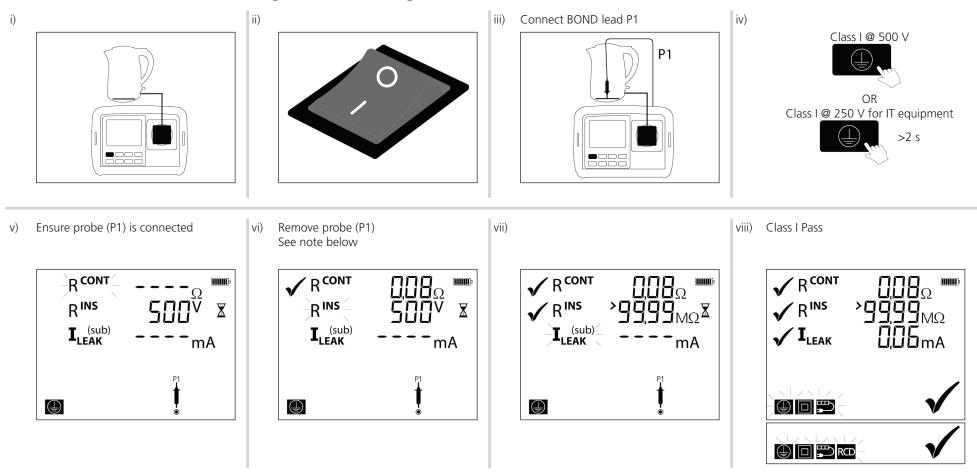


Aborting a test

A test can be aborted at any time by pressing the Power (ESC) button







Class I test (PAT120, 150) using substitute leakage @ 40 V ac

NOTE: If the contact symbol $\stackrel{\checkmark}{\longrightarrow}$ is displayed during the test, the PAT has detected an open circuit load. Ensure the appliance is switched on then press the Class I icon **NOTE**: The PAT100 instruments perform various pre-checks prior to testing to ensure the asset is not short-circuit and is switched on

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To repeat a continuity test (PAT150 Class I and Extension lead tests only R^{CONT} or $R_{PE} \circ$):

Press \square key during \mathbb{R}^{CONT} (or \mathbb{R}_{PE}) test to enable repeat test. The \bigcirc symbol will be displayed. When the timer symbol has disappeared and the repeat symbol is flashing, press \square to run repeat test Press \square or \blacksquare to exit repeat test

To repeat continuity test with 1.0 Ω limit (NOT available on UK models)

At the end of a FAILED continuity test the \clubsuit symbol will flash for up to 5 seconds. Press the \clubsuit or \clubsuit button to repeat the test within the 5 seconds. The test will be repeated with a 1.0 Ω pass limit.

Lock a test in the ON state:

 R^{CONT} (R_{PE}) or R^{INS} (R_{ISO}) can be locked ON (\square) during a test for up to 3 minutes. To Lock R^{CONT} (R_{PE}) or R^{INS} (R_{ISO}) on:

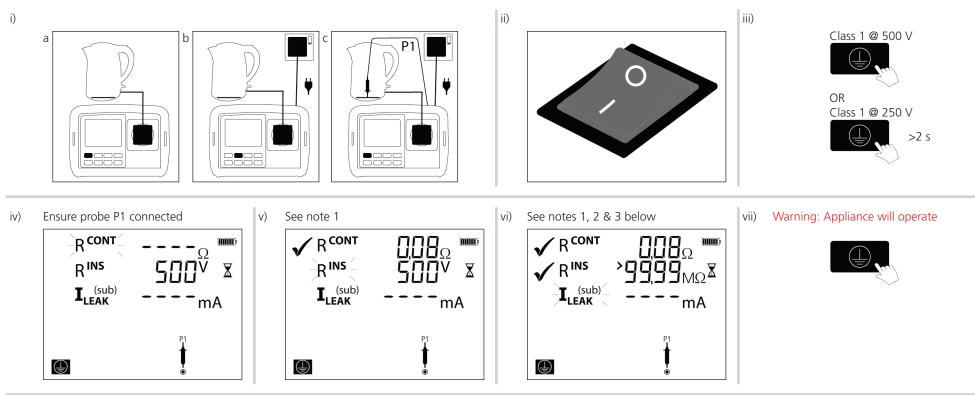
Press , not a during the R^{CONT} (R_{PE}) or R^{INS} (R_{ISO}) test

Press key again to unlock test and proceed to next test

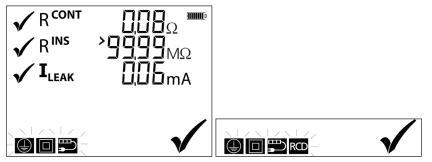
NOTE : This feature is available in group test and QT mode.

Class I test (PAT150) using mains voltage leakage @ 230 V ac

Mains powered testing of equipment with an Earth return conductor



viii) Class 1 Pass



NOTE 1: If the contact symbol appears, the appliance needs to be switched ON. **NOTE**: The PAT100 instruments perform various pre-checks prior to testing to ensure the asset is not short-circuit and is switched on

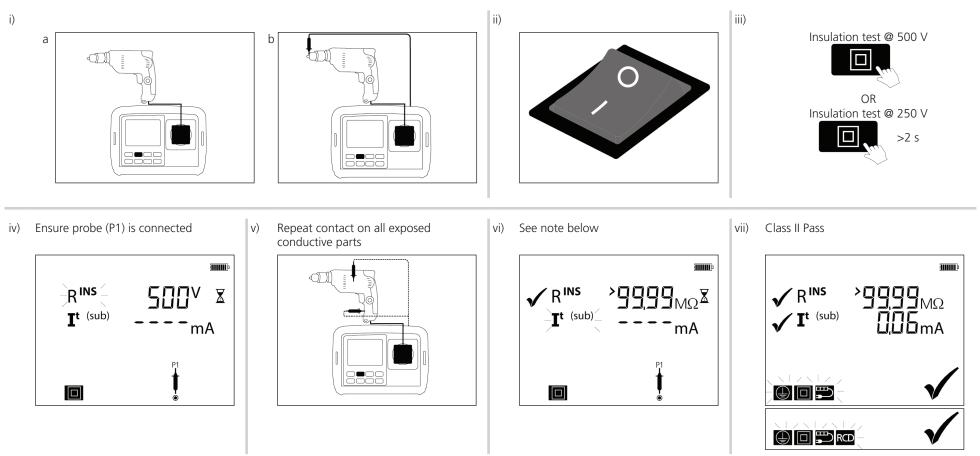
NOTE 2: If the L-N or L-E symbol is flashing a low resistance has been detected. An L-E fault will stop the test. See Measurement symbols table. An L-N fault could damage the PAT tester and should be investigated. To override an L-N warning, press the Class I button.

NOTE 3 : Faulty equipment may cause an RCD to trip during a Touch leakage test

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Class II test (PAT120, 150) using substitute leakage @ 40 V ac

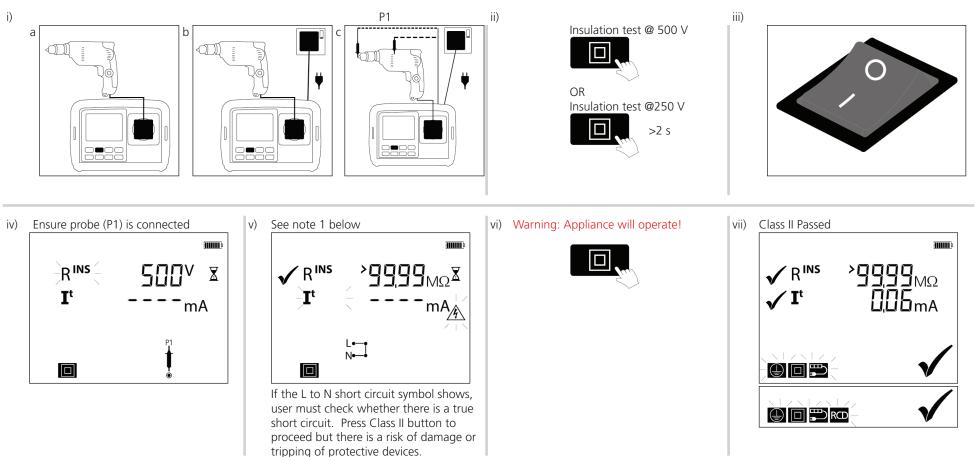
Battery powered testing of equipment without an Earth return conductor



NOTE: If the contact symbol $\stackrel{\checkmark}{\longrightarrow}$ appears, the appliance needs to be switched ON **NOTE**: The PAT100 instruments perform various pre-checks prior to testing to ensure the asset is not short-circuit and is switched on

Class II test (PAT150) using mains voltage leakage @ 230 V ac

Mains powered testing of equipment without an Earth return conductor



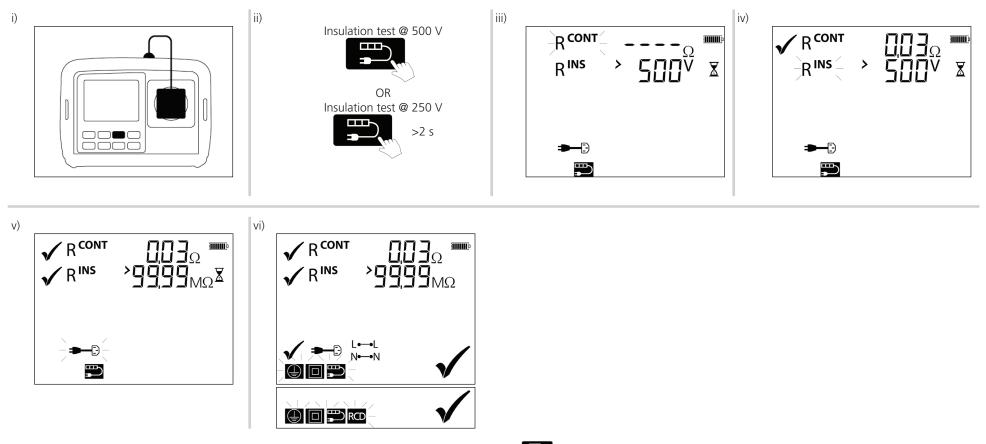
NOTE : High touch leakage measurement on faulty equipment can trip the supply RCD

Warning: High inertia appliances (eg angle grinders) may present a hazard whilst running. It is recommended that where a hazard is likely, the battery powered "Substitute leakage" test is used, which will not operate the appliance.



Power cord test 💭 (PAT120, 150)

Testing a standard power cord

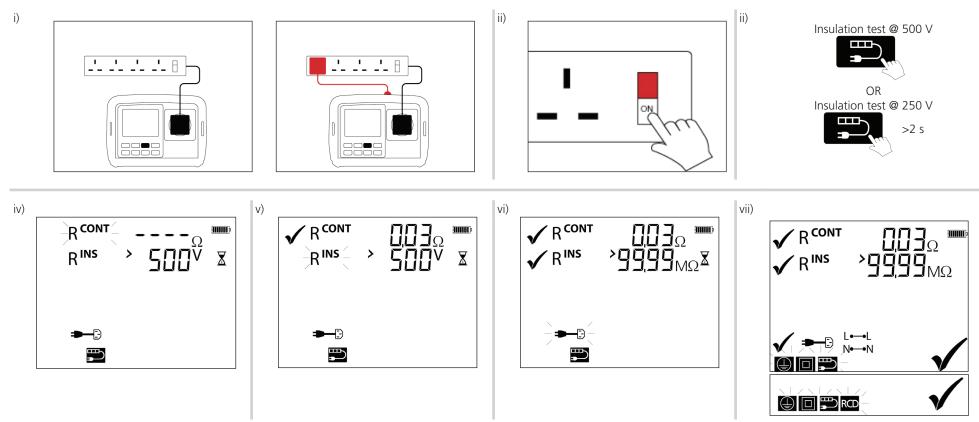


NOTE : For power cords longer than 5m the test can be re-run with a 1.0Ω pass limit by pressing the 😰 test button with 5 seconds of the continuity test failing – refer to page 13



Extension lead test 💭 (PAT120, 150)

Testing an extension lead or multi-way extension lead

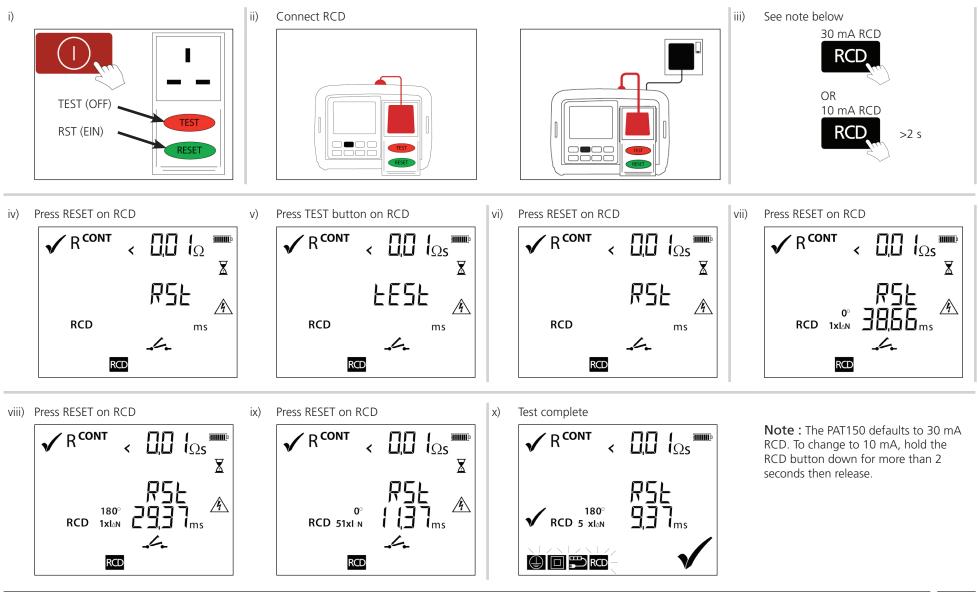


NOTE: Multiple earth continuity tests can be carried out by pressing the QT button during the continuity test, and pressing it again for each new continuity test. See Page 13

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Portable RCD test **RCD** (PAT150)

Testing a portable RCD or extension lead with built-in RCD

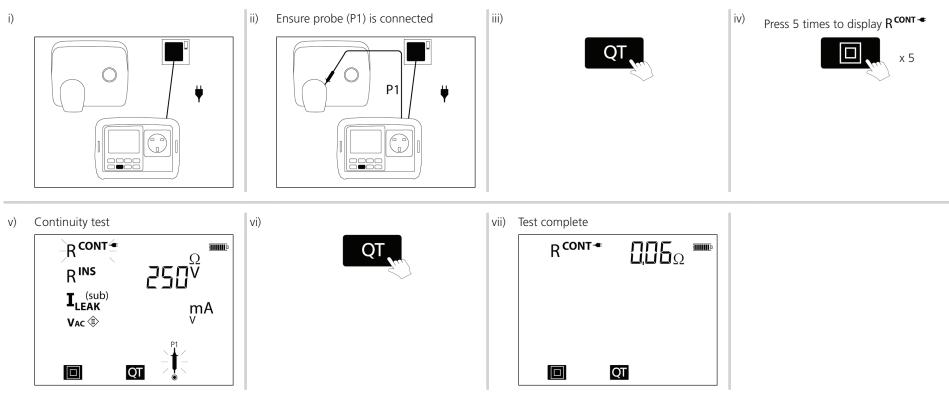


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Fixed equipment testing (PAT150, 150R)

Only a continuity test is possible when testing fixed equipment without disconnecting the incoming supply. Use the Quick Test (QT) button to access the continuity test mode:

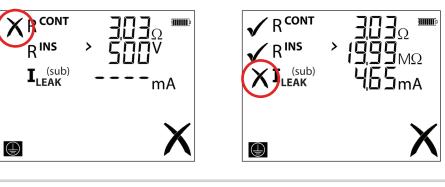




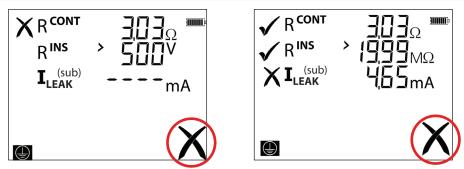


Fail Handling

i) Individual test fail indicated by a small cross:



ii) Overall FAIL indicated by a large cross:



NOTE : Once an appliance has failed a test, further testing of the test group sequence is prevented for safety reasons, except for the extension lead testing

Quick test (PAT15, 150R)

QT = Quick test - Access to individual tests within a test group.

To access Quick Test mode:

Connection for individual tests differs depending on the test group selected.

Options:

Class I

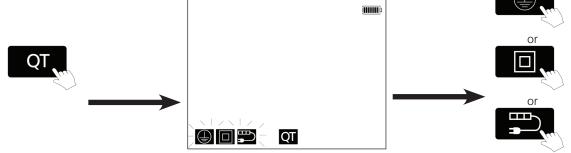
Continuity (Uses P1 probe) Insulation 500 V Insulation 250 V Substitute Leakage Mains Leakage (needs mains connection)

Class II

Insulation 500 V (uses P1 probe) Insulation 250 V (uses P1 probe) Substitute leakage (uses P1 probe) Mains leakage (uses mains connection and P1 probe) SELV measurement (uses P1 and P2 probes)

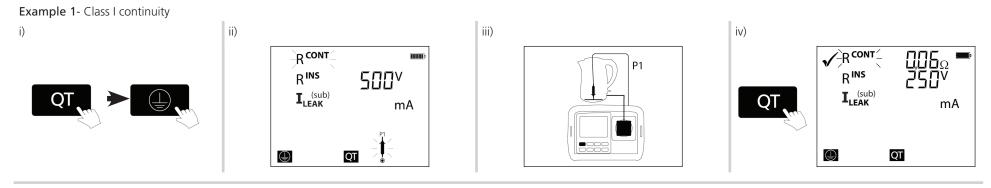
Extension lead

Continuity (uses extension lead adaptor) Extension Lead, Insulation 500 V Extension Lead, Insulation 250 V Polarity (uses extension lead adaptor)

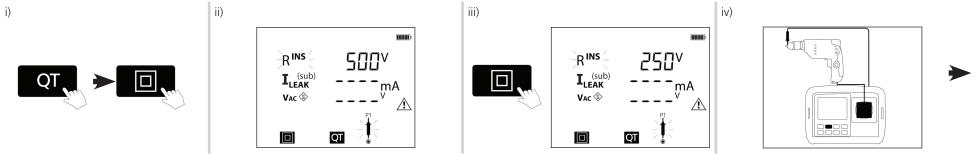


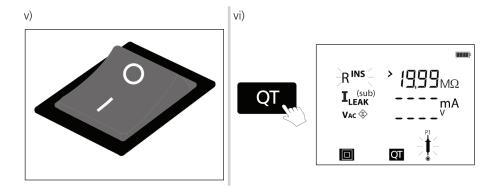
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Quick Test (QT) options



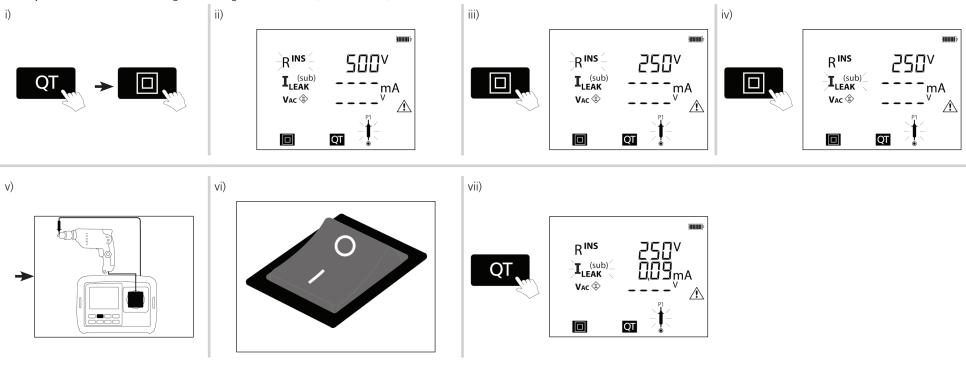
Example 2 – Class II 250 V Insulation test







Example 3 – Class II touch leakage test using the Substitute (or alternative) method.



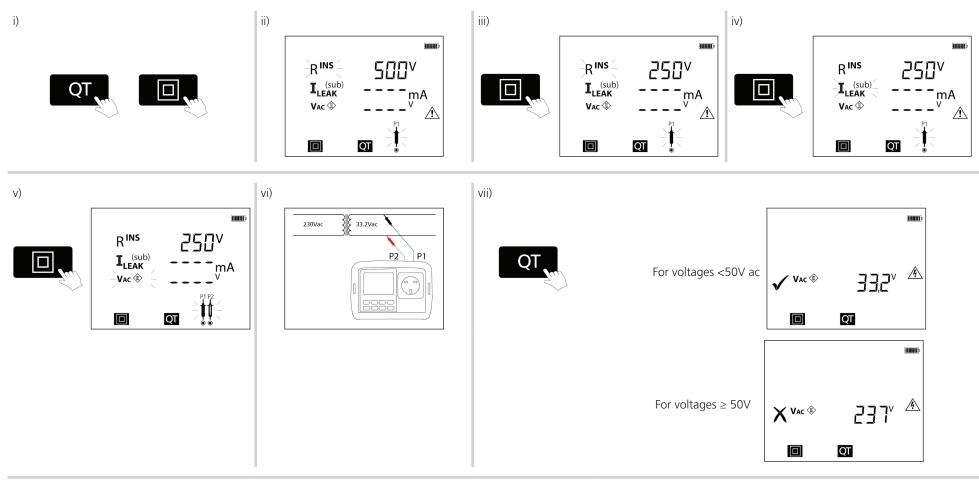


NOTE : To switch between test groups, press the test group buttons.

To exit press the ON/OFF button

SELV measurement within Quick Test (QT)

Separated Extra Low Voltage (SELV) measurement is performed automatically when the PAT150 is connected to the electrical supply

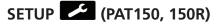


To exit Quick Test (QT) mode

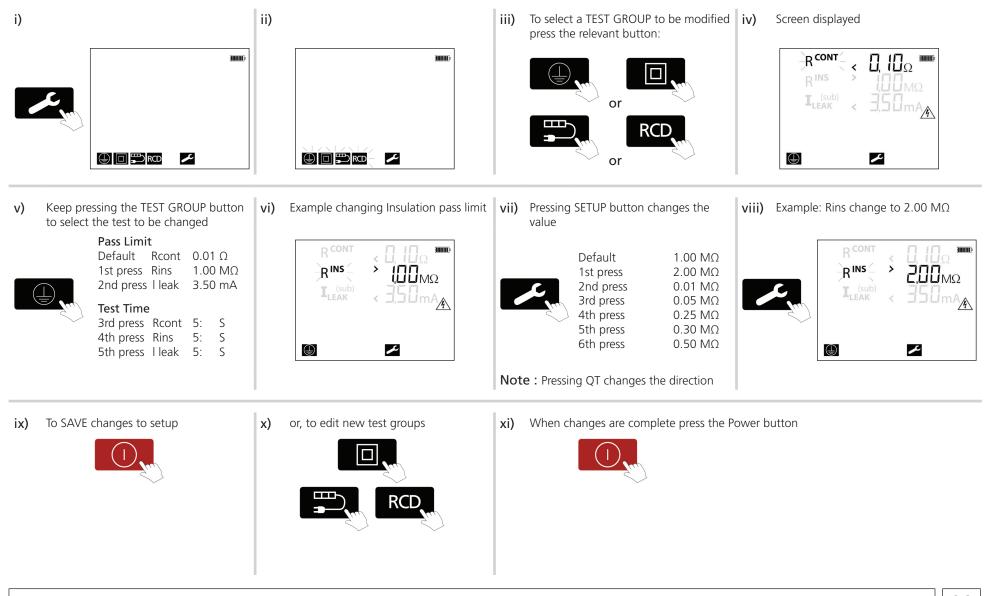


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Changing PASS limits and test times



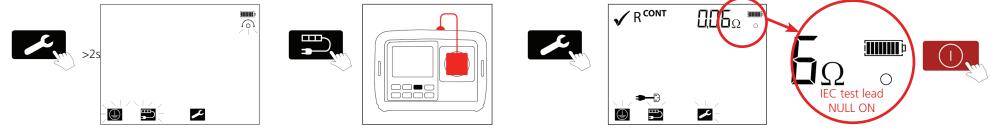
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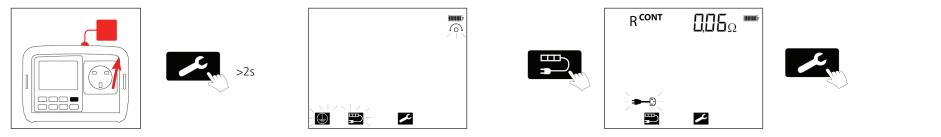
Continuity lead null

Removes the resistance of the CONTINUITY test leads from the measured value

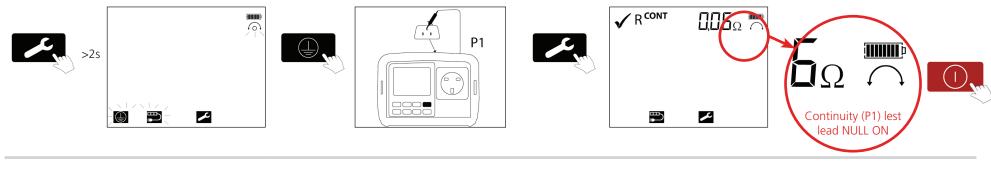
To NULL the resistance of the IEC test lead or an extension lead

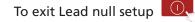


To remove the lead null



To NULL the resistance of the P1 continuity test lead





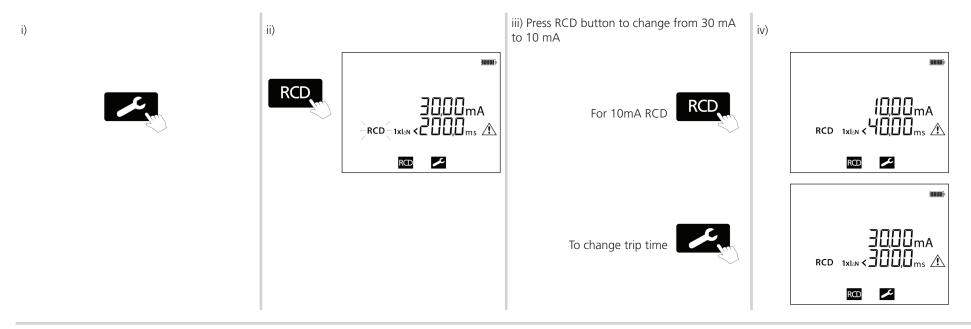
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RCD configuration

Portable RCD current rating can be changed between 10 mA and 30 mA Portable RCD trip time for 30 mA can be set at either 200 ms (for BS 7071 conformity) or 300 ms (for IEC 61540 conformity)

Portable RCD trip current selection



To exit RCD configuration





Factory reset to Default settings

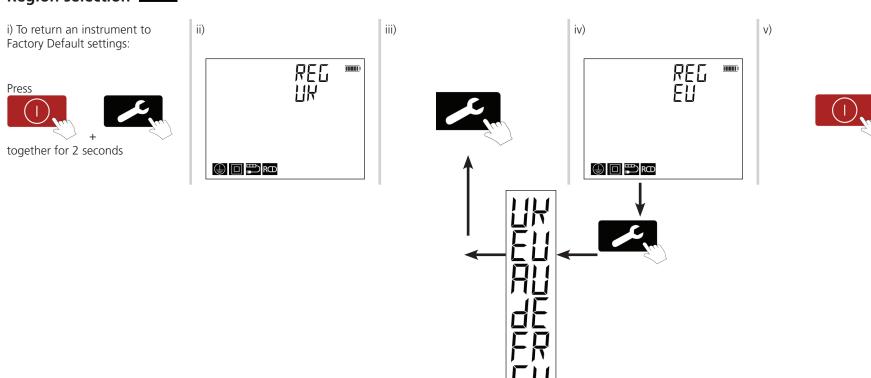
Factory default settings

SETUP - change test pass limits, test times and test lead resistance. SETUP is "test group based" as the PASS limit for a Class I insulation test is different to a Class II insulation test.

Factory Default Test Limits

Variant Model	Rpe, Rcont (Ω)	Rpe, Rcont (Ω) for Ext lead	Rpe, Rcont (Ω) for RCD	Class 1 Riso, Rins (ΜΩ)	Class 2 Riso, Rins (ΜΩ)	Ext lead Riso, Rins (ΜΩ)	Class 1 IEA, ILEAK(sub), IPE, ILEAK (MA)	lt, I ^B Class 2 I _{EA} , It(sub) (mA)	1xI∆N30 (ms)	5xl∆N30 (ms)	1xl∆N10 (ms)	5xI∆N10 (ms)
PAT120-UK	0.2	0.2	0.2	1	2	1	3.5	0.25	NA	NA	NA	NA
PAT150-UK	0.2	0.2	0.2	1	2	1	3.5	0.25	200	40	200	40
PAT120-DE, PAT120-CH, PAT120-EU	0.3	0.3	0.3	1	2	1	3.5	0.5	NA	NA	NA	NA
PAT150-DE, PAT150-CH, PAT150-EU	0.3	0.3	0.3	1	2	1	3.5	0.5	300	NA	300	NA
PAT150-AU	1	1	1	1	1	1	5	1	300	NA	40	NA

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International model variations:

Continuity retest after fail (PAT120, PAT150 DE, & CH models only)

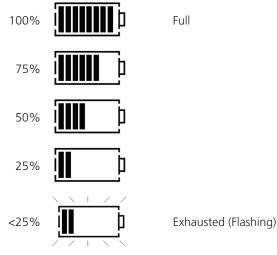
When a continuity test fails to meet the pre-set continuity resistance pass limit of 0.3 Ω , the test can be run again within 5 seconds at the higher 1.0 Ω limit.

Example Class I continuity FAIL. Display shows:



Battery and Fuse replacement (PAT120, 150)

Battery type: 8 x 1.5 V Alkaline LR6 (AA) or NiMH HR6 rechargeable Battery condition is shown by the following display symbols:



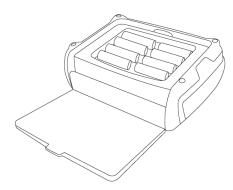
To replace batteries or fuse:

Switch off the instrument.

Disconnect the instrument from all electrical circuits.

Battery replacement

Remove the battery cover from the base by using a cross head screwdriver to un screw the battery cover fixing screw.



Spent Alkaline and NiMH batteries are classified as portable batteries and should be disposed of in the UK in accordance with Local Authority requirements. For disposal of batteries in other parts of the EU contact your local distributor.

Megger is registered in the UK as a producer of batteries. The Registration number is BPRN 00142

For battery replacement:

a) Remove old cells and refit new batteries following correct polarity as marked on the battery holder.
Either: 8 x 1.5 V AA / LR6 Alkaline 8 x 1.2 V AA / LR6 NiMH
c) Replace the battery cover.

Warning: Incorrect battery cell polarity can cause electrolyte leakage, resulting in damage to the instrument.

Warning: Do not mix battery technologies

Warning: Do not use batteries with different charge state.

\triangle Rechargeable batteries and battery charging

All PAT100 series accept alkaline or rechargeable NiMH cells. Only the PAT150R can be recharged as below:

PAT150R – Use supplied battery charger

To charge the batteries:

Ensure fitted batteries are of the rechargeable NiMH type. Connect the 15 V DC plug of the charger to the socket on the connection panel of the PAT marked (-) (-) (+)

Warning: The instrument should be fully disconnected and not used during the charging process.

Warning: Do not attempt to recharge non-rechargeable (Primary) cells. Doing so may result in instrument damage and may cause personal injury.

Warning: Only use a Megger approved PAT100 charger. Other chargers may present a fire risk.

Ensure ambient temperatures are between 4 °C and 40 °C while charging the PAT.

Battery Disposal

The crossed out wheeled bin symbol placed on the batteries is a reminder not to dispose of them with general waste at the end of their life.

This product contains the following batteries:

8 x AA Alkaline (LR6) 1.5V primary cells or Nickel Metal Hydride NiMH (HR6) 1.2V secondary cells They are located in the battery compartment on the rear of the instrument They can be safely removed by ensuring all test leads have been disconnected from the instrument prior to removing the battery cover with a suitable screwdriver.

Spent PAT100 batteries are classified as Portable Batteries and should be disposed of in the UK in accordance with Local Authority requirements

For disposal of batteries in other parts of the EU contact your local Megger company or distributor.

Megger is registered in the UK as a producer of batteries. The Registration number is BPRN00142

For Further information see www.megger.com

Fuse replacement

Possible fuse failure is indicated by the symbol. \bigoplus

For fuse replacement

Remove battery cover as above.

Withdraw fuse and check for failure.

Replace with a fuse type: 1 x 100 mA (F) 250 V 1.5 KA HBC 4 x 20 mm



Preventive maintenance

Test leads should be checked before use to ensure there is no damage. Ensure batteries are removed if the instrument is left unused for an extended period. When necessary, the instrument can be cleaned with a damp cloth. Do not use alcohol based cleaners as these may leave a residue.

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Specification

ENVIRONMENTAL CONDITION:

Operating ambient Humidity

CONTINUITY TEST

Test voltage

Test current

Continuity accuracy Resistance resolution Display range Continuity test nulling Test time

INSULATION TEST

Insulation test

Short circuit/charge current Insulation accuracy Resolution Display range Test duration

SUBSTITUTE LEAKAGE TEST

Leakage current Accuracy Test frequency Test voltage Leakage Current Resolution Display range Test duration 20°C Nominal humidity

Compliance Voltage: +4 V dc -0% / +10% (open circuit) Bi-directional +200 mA -0% + 50 mA (into 2 Ω load) Resistance: $\pm 5\% \pm 3$ digits (0 to 19.99 Ω) 10 m Ω 0.01 to 19.99 Ω Up to 9.99 Ω User selectable from 2 sec to 20 sec or selected during test to 180 sec

250 V dc −0 % /+25 % open circuit 500 V dc −0 % /+25 % open circuit ≥ 500V −0% dc across 0.5 MΩ load < 2 mA dc ±3% ±10 digits (0 to 19.99 MΩ) 0.01 MΩ 0.10 MΩ to 99.99 MΩ User selectable from 2 sec to 20 sec or selected during test to 180sec

± 5% ± 3 digits Nominal mains frequency 50Hz < 50 V ac 0.01 mA 0.10 to 19.99 mA User selectable from 2 sec to 5 seconds Reading corrected to 230V ac.

DIFFERENTIAL LEAKAGE CURRENT

Test voltage Test frequency Test accuracy Resolution Display range Test duration

TOUCH CURRENT TEST

Test voltage Test frequency Test accuracy Resolution Display range Test duration Nominal mains 230 V ac Nominal mains 50 Hz \pm 5% \pm 3 digits 0.01 mA 0.10 to 3.99 mA

User selectable from 2 sec to 5 sec

User selectable from 2 sec to 5 seconds

Nominal supply voltage 230 V ac

Nominal mains frequency 50 Hz

+5% +3d +3uA/A

0 10 to 19 99 mA

0 01 mA

SELV DEVICE TEST

Test voltage	0 to 300 V ac
Measurement accuracy	\pm 3% \pm 3 digits
Resolution	0.1 V ac
Display range	0.1 to 300 V ac

EXTENSION LEAD TEST

Test includes Insulation and Bond tests. Test voltage Polarity

5 V Lead OK Live neutral shorted Live neutral reversed Live/neutral open circuit

PORTABLE RCD TEST

Test voltage Test frequency Test current accuracy Trip time accuracy Trip time resolution Display range Nominal mains 230 V 50 Hz +2% to +8% (1 x I, 5 x I) ±1% ± 1 ms 0.01 ms 0 to 200 ms (1 x I) 0 to 40 ms (5 x I)

MAINS SUPPLY TEST

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Specification

Frequency measurement range Test voltage Accuracy Resolution Display range 50 Hz 40 to 300 V ac ± 3% ± 3 digits 0.1 V ac 40 to 300 V ac

CIRCUIT TEST

(Carried out automatically, not available to user)

Test voltage Test frequency Test current 5 V Nominal Mains 50 Hz < 100 mA short circuit

SAFETY

Instrument designed to IEC 61010-1: 2010 Test leads designed to IEC 61010-031: 2008 300 volts to Earth Category II Mains fuse protection to 250 volts rms ac

EMC

Design to meet IEC 61326-1: 2012 and IEC 61326-2-2: 2005.

FUSE

(user replaceable) UK variants has mains plug fuse One F 100 mA 250 V 5 x 20 mm HBC fuse.

ENVIRONMENTAL

Operating temperature range Storage temperature range Humidity

Maximum altitude IP rating 0°C to +40°C -20°C to +60°C 90%RH @ +10°C +30°C 75%RH @ +30°C to +40°C 2,000m to full safety spec. IP40 (with front cover closed)

MECHANICAL

BATTERIES Battery life Battery type

> 30 hrs 20sec:2min Test:Standby ratio
Supply voltage
12 Vdc (Alkaline AA LR6)
9.6 Vdc (NiMH AA LR6)

WEIGHT

PAT120 (instrument only):	1150 g	(40.4 oz)
Shipping weight:	2370g	(83.6 oz)
PAT150 (instrument only):	1300 g	(45.8 oz)
Shipping weight:	2795g	(98.6 oz)
PAT150R (instrument only):	1300 g	(45.8 oz)
Shipping weight:	2975g	(104.9 oz)

DIMENSIONS

Dimensions (instrument and case)

Dimensions (instrument and packaging)

203 mm (L) x 148 mm (W) x 78 mm (H) (8 x 5.7 x 3.2 inches)

456 mm (L) x 178 mm (W) x 89 mm (H) (18 x 7.1 x 3.5 inches)

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