









**PAT Tester Comparison Chart - Produced by Instrotech Ltd**

Handheld, Battery Operated, Manual PAT Testers - Suitable for general purpose use and small PAT testing requirements.

	Seaward Primetest 50**	Seaward Primetest 100	Martindale HPAT500	Martindale HPAT600	Seaward Primetest 200	Seaward Primetest 210	Seaward Primetest 220
							
List Price	£349.00	£469.00	£379.00	£458.00	£595.00	£605.00	£565.00
<b>PAT Test Specifications</b>							
Earth Bond Test	200mA (IT Safe)	200mA (IT Safe)	200mA (IT Safe)	200mA (IT Safe)	200mA (IT Safe)	200mA (IT Safe)	200mA (IT Safe)
Earth Bond Pass Value*	0.2 Ohm	0.2 Ohm	0.2 Ohm	0.1 Ohm, User Adjustable to 0.9 Ohm in 0.1 Ohm Steps	0.2 Ohm	0.2 Ohm	0.2 Ohm
Insulation Test	500V DC	500V DC	500V DC	250V DC / 500V DC	500V DC	500V DC	500V DC
Insulation Pass Value*	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II User Adjustable from 0.3 MOhm to 10 MOhm	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II
Substitute Leakage Test	-	Y	-	-	-	-	-
Substitute Leakage Pass Value*	-	0.75mA Class I 0.25mA Class II	-	-	-	-	-
Load Leakage Test	-	-	-	-	Y	Y	Y
Differential Leakage Test	-	-	-	-	-	-	-
Touch Current Test	-	-	-	-	Y	Y	Y
Run Current Test	-	-	-	Simulated Current Test	-	-	-
Fuse Test	-	-	Y	Y	-	-	-
IEC Lead Test / Extension Lead Test	Y	Y	Y	Y	Y	Y	Y
IEC Lead Pass Value	0.2 Ohm	0.2 Ohm	0.2 Ohm	0.1 Ohm, User Adjustable to 0.9 Ohm in 0.1 Ohm Steps	0.2 Ohm	0.2 Ohm	0.2 Ohm
Flash Test	-	-	-	-	-	-	-
Tests 240V Appliances	Y	Y	Y	Y	Y	Y	Y
Tests 110V Appliances	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required	Dead Tests Only Adaptors Required
Memory Storage	-	-	-	200 Results	-	-	-
<b>Extra Test Features</b>							
RCD Test	-	-	-	-	Y	Y	Y
Earth Loop Impedance Test	-	-	-	-	Indication Only	0.0 Ohm to 199 Ohm	0.0 Ohm to 199 Ohm
Temperature Measurement	-	-	-	-	Y, with adaptor	-	-
Multimeter Functions	-	-	-	-	Voltage & Resistance	Voltage & Resistance	-
Power Socket Test	Y	Y	-	-	Y	Y	Y
<b>Other Tester Features</b>							
Print Test Labels	-	-	-	-	-	-	-
Barcode Scanner	-	-	-	-	-	-	-
Download Test Results	-	-	-	-	-	-	-
Upload Test Information	-	-	-	-	-	-	-
QWERTY / Alphanumeric Keypad	-	-	-	-	-	-	-
Preset Test Groups	3 Buttons for Class I, Class II & IEC Lead Test	3 Buttons for Class I, Class II & IEC Lead Test	3 Buttons for Class I, Class II & IEC Lead Test	Auto or Manual Mode, with buttons for Class I, Class II, IEC Lead & Load Tests	Tests selected via dial on front of unit	Tests selected via dial on front of unit	Tests selected via dial on front of unit
User Help Screens	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-
Weight	800g	800g	700g	700g	800g	800g	800g
Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case	Soft Carry Case
Calibration Certificate	-	-	Y	Y	-	-	-
Included Accessories	AA Alkaline Batteries, Mini IEC Lead, Soft Carry Case, Earth Bond Probe & Clip, Printed Instruction Manual	AA Alkaline Batteries, Mini IEC Lead, Soft Carry Case, Earth Bond Probe & Clip, Printed Instruction Manual	AA NiMH Batteries, Mini IEC Lead, Mains Charger Adaptor, Soft Carry Case, Earth Probe & Clip, Printed Instruction Manual	AA NiMH Batteries, Mini IEC Lead, Mains Charger Adaptor, In Car Charger, Soft Carry Case, Earth Probe & Clip, Printed Instruction Manual	AA Alkaline Batteries, Mini IEC Lead, 110V Socket Adaptor, Earth Bond Probe with Clip, Soft Carry Case, Printed Instruction Manual	AA Alkaline Batteries, Mini IEC Lead, 110V Socket Adaptor, Earth Bond Probe with Clip, Soft Carry Case, Printed Instruction Manual	AA NiMH Batteries, Battery Charger Mini IEC Lead, 110V Socket Adaptor, Earth Bond Probe with Clip, Soft Carry Case, Printed Instruction Manual
Warranty	1 Year	1 Year	2 Years	2 Years	1 Year	1 Year	1 Year

\* Some testers indicate a Pass or Fail based on a pre-programmed limit, where this function is available the thresholds are listed. Where N/A is entered, the tester displays the test result.

\*\* The Primetest 50 does not display a test result, and as such is only recommended for use as an interim checker. One of the problems that a simple Pass / Fail tester can present is when testing appliances with longer leads, or long extension leads. The tester may indicate a Fail, based on its preset threshold, however the item may be a legitimate Pass. Therefore we would always recommend a tester that gives you an actual test reading so that this can be verified by the person carrying out the test.



**PAT TESTER COMPARISON CHART**

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Mains Powered Manual PAT Testers for General Purpose Use, Small to Medium Contractors & Hire Industry

										
List Price	£489.00	£725.00	£496.00	£795.00	£760.00	£769.00	£699.00	£995.00	£894.00	£1,393.00
<b>PAT Test Specifications</b>										
Earth Bond Test	100mA (IT Safe), 6A, 12A, 20A, 25A	200mA (IT Safe), 10A, 25A	100mA (IT Safe), 8A, 25A	200mA (IT Safe), 10A, 25A	200mA (IT Safe), 10A	200mA (IT Safe), 25A	100mA (IT Safe), 8A, 25A	200mA (IT Safe), 10A, 25A	100mA (IT Safe), 8A, 25A	25A
Earth Bond Pass Value*	N/A	N/A	N/A	0.1 Ohm, User Adjustable	0.1 Ohm, User Adjustable	0.1 Ohm, User Adjustable	N/A	0.1 Ohm, User Adjustable	N/A	N/A
Insulation Test	500V DC	500V DC	500V DC	250V, 500V DC	250V, 500V DC	500V DC	500V DC	250V, 500V DC	500V DC	500V DC
Insulation Pass Value*	N/A	N/A	N/A	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II	1 MOhm Class I 2 MOhm Class II	N/A	1 MOhm Class I 2 MOhm Class II	N/A	-
Substitute Leakage Test	-	-	-	Y	Y	Y	-	Y	-	-
Substitute Leakage Pass Value*	-	-	-	0.75mA Class I 0.25mA Class II User Adjustable	0.75mA Class I 0.25mA Class II User Adjustable	0.75mA Class I 0.25mA Class II	-	0.75mA Class I 0.25mA Class II User Adjustable	-	-
Load Leakage Test	-	-	-	-	-	Y	Y	Y	Y	Y
Differential Leakage Test	-	-	-	Y	-	-	-	Y	-	-
Touch Current Test	-	-	-	Y	Y	Y	-	Y	-	-
Run Current Test	-	-	-	Y	Y	Y	Y	Y	-	Y
Fuse Test	Y	Y	Y	Y	-	-	-	Y	-	-
IEC Lead Test / Extension Lead Test	Requires Additional Extension Lead Tester	Requires Additional Extension Lead Tester	Y	Y	Y	Y	Y	Y	-	-
IEC Lead Pass Value	N/A	N/A	N/A	0.1 Ohm User Adjustable	0.1 Ohm User Adjustable	0.1 Ohm, User Adjustable	N/A	0.1 Ohm, User Adjustable	-	-
Flash Test	-	-	-	-	-	-	Y	Y	Y	Y
Tests 240V Appliances	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Tests 110V Appliances	Y	Y	Y	Y	Dead Tests Only Adaptor Required	Dead Tests Only Adaptor Required	Y	Y	Y	Y
Memory Storage	-	-	-	-	200 Results	-	-	-	-	-
<b>Extra Test Features</b>										
RCD Test	-	-	-	Y	-	-	-	Y	-	-
Earth Loop Impedance Test	-	-	-	-	-	-	-	-	-	-
Temperature Measurement	-	-	-	-	-	-	-	-	-	-
Multimeter Functions	-	-	-	-	-	-	-	-	-	-
Power Socket Test	-	-	-	-	-	Y	-	-	-	-
<b>Other Tester Features</b>										
Print Test Labels	-	-	-	-	-	-	-	-	-	-
Barcode Scanner	-	-	-	-	-	-	-	-	-	-
Download Test Results	-	-	-	-	-	-	-	-	-	-
Upload Test Information	-	-	-	-	-	-	-	-	-	-
QWERTY / Alphanumeric Keypad	-	-	-	-	-	-	-	-	-	-
Preset Test Groups	Tests Selected via Dial	Dedicated Test Buttons	Dedicated Test Buttons	Dedicated Test Buttons	Tests Selected via Dial	Dedicated Test Buttons	Dedicated Test Buttons	Dedicated Test Buttons	Tests Selected via Dial	Tests Selected via Dial
User Help Screens	-	-	-	Y	-	Y	-	Y	-	-
Software	-	-	-	-	-	-	-	-	-	-
Weight	4 kg	3.75 kg	4 kg	4 kg	3.5 kg	3 kg	4.6 kg	4 kg	10 kg	10 kg
Carry Case	-	-	-	Soft Carry Case	Soft Carry Case	Hard Carry Case	Accessory Soft Case	Soft Carry Case	-	-
Calibration Certificate	-	-	-	Y	-	-	-	-	-	-
Included Accessories	Earth Bond Lead, Insulation Probe, Printed Instruction Manual	Earth Bond Lead, Printed Instruction Manual	Earth Bond Lead, Mini IEC Lead, Printed Instruction Manual	Earth Bond Lead, Mini IEC Lead, Soft Carry Case, Instruction Manual	Earth Bond Lead, 110V Adaptor, Rubber Boot, Instruction Manual	Earth Bond Lead and Clip, Insulation Probe, Instruction Manual	Earth Bond Lead, Flash Gun, 110V Mains Adaptor, Mini IEC Lead, Printed Instruction Manual	Earth Bond Lead, Flash Probe, Mini IEC Lead, Soft Carry Case, Instruction Manual	Earth Bond Lead, Flash Probe, Printed Instruction Manual	Earth Bond Lead, Flash Probe, Printed Instruction Manual
Warranty	1 Year	1 Year	2 Years	1 Year	1 Year	2 Years	2 Years	1 Year	1 Year	1 Year

