



# HPAT Series

Highly portable handheld PAT Testers



## Key features

- Compact portable design with backlit display
- Easy one button testing
- Automatic Class I, Class II & power lead tests
- Clear and simple PASS/FAIL indication
- IT safe 200mA earth bond test
- Includes carry case, extension lead adaptor, earth bond probe and clip

## Additional features HPAT500/2 and HPAT600/2:

- Mains rechargeable for low running costs
- Measured values displayed
- Selectable 250V insulation test for surge protected equipment
- Adjustable limits and memory (HPAT600/2)

\* Verification Certificate with calibration data for HPAT500/2 and HPAT600/2

	HPAT400	HPAT500/2	HPAT600/2
Class I/II Test	✓	✓	✓
Lead Test	✓	✓	✓
Pass/Fail Indication	✓	✓	✓
Test Values Displayed		✓	✓
Selectable Limits			✓
Test Mode	Auto	Auto	Auto/Manual
Run Test			Simulated
Earth Continuity Test Current	200mA	200mA	200mA
Insulation Test Voltage	500V	250/500V	250/500V
110V Appliances	With accessory	With accessory	With accessory
Memory			200 results for on-screen recall
Power Supply	Alkaline batteries	Rechargeable or mains with charger	Rechargeable or mains with charger

The HPAT Series of handheld PAT testers can be used for testing all types of portable appliances. They are designed for ease of use with one button automatic testing and ultimate portability. The small lightweight design is ideal for testing in all locations, whether under a desk or testing a wall mounted monitor. The HPAT500 and HPAT600 feature rechargeable batteries and mains operation for low running costs and no down time on-site.

The 250V test option on the HPAT500/2 and HPAT600/2 is ideal for surge protected devices and the HPAT600/2 adjustable test limits allow for long leads. A comprehensive range of optional adaptors is available for testing 110V appliances and equipment fitted with 3 phase plugs.



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Specifications

FUNCTION	HPAT400	HPAT500/2	HPAT600/2
EARTH CONTINUITY			
Test voltage	4V DC (into open circuit)		
Test current	200mA DC (into short circuit)		
Range	PASS/FAIL	0 - 19.99Ω	
Resolution	-	0.01Ω	
Accuracy	-	± (5% of reading + 2 digits)	
Fixed /default pass limits	Lead ≤ 0.20Ω = PASS Class I ≤ 0.20Ω = PASS	Lead ≤ 0.10Ω = PASS      > 0.10Ω ≤ 0.20Ω = NOTE x.xx PASS* Class I ≤ 0.10Ω = PASS      > 0.10Ω ≤ 0.20Ω = NOTE x.xx PASS* *Allows user defined pass values to be recorded, eg. for long cord lengths.	
User settable limits	-		≤0.1Ω to ≤0.9Ω in 0.1Ω steps
INSULATION			
Test voltage	>500V DC at 1mA (< 625V DC open circuit)	User selectable > 250V DC at 1mA / > 500V DC at 1mA (< 312.5V DC open circuit / < 625V DC open circuit)	
User selectable voltage	-		
Test current	1.5mA (into short circuit)		
Range	PASS/FAIL	2.00MΩ, 20.0MΩ, 200MΩ	
Resolution	-	0.01MΩ	
Accuracy	-	< 100MΩ ± (5% reading + 2 digits) > 100MΩ ± (10% reading + 2 digits)	
Pass level	Lead: ≥ 1.0MΩ, Class I: ≥ 1.0MΩ, Class II: ≥ 2.0MΩ		
User settable pass level	-		≥ 0.3MΩ to ≥ 1MΩ in 0.1MΩ steps ≥ 1MΩ to ≥ 10MΩ in 1MΩ steps
FUSE CHECK			
Test voltage	4V DC (into open circuit)		
Test current	200mA DC (into short circuit)		
Pass level	> 2mA		
SIMULATED LOAD TEST			
Test voltage:	-	4V DC (into open circuit)	
Test current:	-	200mA DC (into short circuit)	
Accuracy	-	± (5% reading + 2 digits)	
Threshold for ‘Simulated Current Hi’:	-	16A	
MEMORY			
	-		200 tests stored for on-screen recall
POWER			
Batteries	6 x AA alkaline batteries	6 x 1.2V AA NiMH rechargeable batteries, 1800mAh, or greater	
Battery life	Fully charged, minimum 600 complete tests.	Fully charged, minimum 600 complete tests. The HPAT500/HPAT600 will operate from the battery charger in the event of discharged batteries. Do not remove batteries.	
Auto power down	after 10 minutes of inactivity/low battery		
Battery charger input	-	230V 50Hz	
Battery charger output	-	12VDC at 300mA, 5.5 jack x 2.5 bore centre positive	

## GENERAL

Overload protection: 300V AC/DC

Protection class: IP20

Safety: Complies to BS EN 61010-1

Temperature Range: -10 to 40°C, non-condensing

Auto Power Down: after 10 minutes of inactivity/low battery

Dimensions: 90 x 210 x 54mm

Weight: 700g approx (including batteries & leads)

### Included

**HPAT400:** TL67 earth bond probe, 6 AA alkaline batteries, EX322 IEC adaptor lead, TC57 carry case

**HPAT500:** Mains charger, TL67 earth bond probe, 6 AA NiMH rechargeable batteries, EX322 IEC adaptor lead, TC57 carry case

**HPAT600:** Mains charger, car charger, TL67 earth bond probe, 6 AA NiMH rechargeable batteries, EX322 adaptor lead, TL178 null pin on keyfob, TL47 lead set, TC57 carry case

### Optional Accessories

TL157 110V appliance adaptor lead, EX331 110V extension adaptor lead, PL13 plug lock out, PAT testing labels LAB1, LAB2, FAIL1