



Key features

- Compact, portable design
- High-quality colour display with optional help screens
- Automatic testing Class I, Class II & power lead tests
- IT safe 200mA earth bond test
- Selectable 250V insulation test for surge protected equipment
- USB-C rechargeable with fast charge support
- Extended battery life with power saving mode
- Clear and simple PASS / FAIL indication
- Measured values displayed

Additional features HPAT650

- Adjustable test limits
- Memory storage with on screen recall
- Single test execution mode
- Substitute leakage test

	HPAT550	HPAT650
Class I/II Test	✓	✓
Lead Test	✓	✓
Pass/Fail Indication	✓	✓
Test Values Displayed	✓	✓
Selectable Limits		✓
Substitute leakage test		✓
Test mode	Sequence	Sequence / Single
Earth Continuity Test Current	200mA	200mA
Insulation Test Voltage	250V / 500V	250V / 500V
110V Appliances	With accessory	With accessory
Memory		100 results for on-screen recall
Power Supply	Lithium rechargeable	Lithium rechargeable

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. Both models feature a bright, high-quality colour display for ease of use. The small, lightweight design is ideal for testing in all locations, whether under a desk or testing a wall-mounted monitor. Both units have a rechargeable battery which can be charged via the integral USB-C charging port.

The 250V test option is ideal for surge-protected devices; the HPAT650 also features adjustable test limits to allow for long leads. A comprehensive range of optional adaptors is available for testing 110V appliances and equipment fitted with 3-phase plugs.

FUNCTION	HPAT550	HPAT650
EARTH CONTINUITY		
Test voltage	>4V DC (into open circuit)	
Test current	>200mA DC (into short circuit)	
Range	0.01 - 20Ω	
Resolution	0.01Ω	
Accuracy	± (5% of reading + 2 digits)	
Fixed /default pass limits	Fixed ≤0.1Ω ≤0.1Ω Marginal pass for long cable	Default ≤0.1, user settable
User settable limits	-	≤0.1Ω to ≤0.9Ω in 0.1Ω steps
INSULATION		
Test voltage	User selectable >250V DC at 1mA / >500V DC at 1mA (<312.5V DC open circuit / <625V DC open circuit)	
User selectable voltage		
Test current	<2mA (into short circuit)	
Range	0.01MΩ - 100MΩ	
Resolution	0.01MΩ (10kΩ - 2MΩ), 0.1MΩ (2MΩ - 20MΩ), 1MΩ (20MΩ - 100MΩ)	
Accuracy	5% 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
SUBSTITUTE LEAKAGE TEST		
Test voltage:	-	<50V AC (into open circuit) 0.02-20mA DC (into short circuit)
Accuracy	-	± (5% reading + 2 digits)
MEMORY		
Test records	-	100 tests stored for on-screen recall
POWER		
Batteries	3.7V 5000mAh lithium polymer battery (non-user replaceable)	
Battery life	Fully charged, minimum 1700 complete tests approx.	
Auto power down	Auto dimming after 3 minutes, Auto power down after 5 minutes of inactivity	
ENVIRONMENTAL		
Location	Suitable for indoor use, and outdoor use in dry weather conditions only	
Altitude	Up to 2000m	
Operating temperature	0°C to 40°C	
Humidity	≤80% RH up to 31°C, decreasing linearly to 50% RH at 40°C	
Ingress protection class	IP20	
Pollution degree	2	
GENERAL		
Overload protection	300V AC/DC	
Protection class	IP20	
Safety	Complies to BS EN 61010-1	

Includes

HPAT550: TL67 earth bond probe, EX322 IEC adaptor lead, TC57 carry case, USB-A to USB-C cable, TL178 null pin on keyring, instruction manual and verification certificate.

HPAT650: TL67 earth bond probe, EX322 adaptor lead, TL178 null pin on keyring, TC57 carry case, USB-A to USB-C cable, instruction manual and verification certificate

Optional accessories

TL157 110V PAT Adaptor, EX331 Extension Lead Adaptor, PI13 Plug Lock Out, PAT testing labels LAB1, LAB2 and FAIL1

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