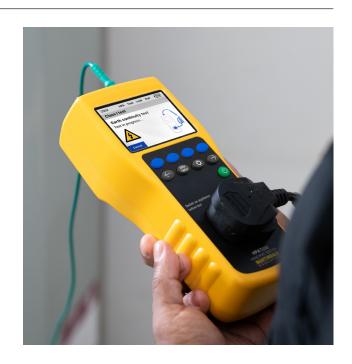


HPAT Series

Portable handheld PAT Testers







Key features

- · Compact, portable design
- High-quality colour display with optional help screens
- Clear and simple PASS / FAIL indication with measured values
- Automatic testing Class I, Class II
 & IEC power lead tests
- IT safe 200mA earth bond test
- Selectable 250V or 500V insulation test
- USB-C rechargeable, fast charge support and power save mode

Premium features HPAT650

- Memory storage with on screen recall
- Adjustable test limits for long mains leads
- Single and sequenced test execution mode
- Substitute leakage test at reduced voltage for checking earth leakage

	HPAT550	HPAT650
Class I / Class II test	✓	✓
Pass / Fail Indication	✓	✓
Test values displayed	✓	✓
200mA Earth continuity test current	✓	✓
Insulation Test Voltage 250V & 500V	✓	✓
Lead Test	✓	✓
Rechargeable (via USB-C)	✓	✓
Sequenced test mode	✓	✓
Single test execution mode		✓
Memory (100 results)		✓
Selectable limits		✓
Substitute leakage test		1

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 while the small, lightweight design gives ultimate portability. Both models feature a bright, high-quality colour display for ease of use and can be charged via the integral USB-C charging port. The 250V insulation test option is ideal for surge-protected devices.

The HPAT650 incorporates result storage with on screen recall, substitute leakage test, single test execution mode and 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	НРАТ650	
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 ≤0.5Ω selectable pass for long cable	Default ≤0.1, user settable ≤0.5Ω selectable pass for long cable	
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	(~012.50 BO Open chount / ~0250 BO Open chount)		
Test current	<2mA (into short circuit)		
Range	0.01ΜΩ - 100ΜΩ		
Resolution	$0.01 M\Omega~(10 k\Omega~-~2 M\Omega),~0.1 M\Omega~(2 M\Omega~-~20 M\Omega),~1 M\Omega~(20 M\Omega~-~100 M\Omega)$		
Accuracy	± (5% of reading + 2 digits)		
Pass level	Lead: ≥ 1.0MΩ, Class I: ≥1.0MΩ, Class II: ≥2.0MΩ		
User settable pass level	-	≥0.3M Ω to ≥ 1M Ω in 0.1M Ω steps ≥1M Ω to ≥ 10M Ω in 1M Ω steps	
SUBSTITUTE LEAKAGE TEST			
Test voltage	-	<50V AC (into open circuit) 0.02-20mA DC (into short circuit)	
Accuracy	-	± (5% reading + 2 digits)	
Pass level	-	≤5mA	
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°C 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		

Comprehensive portable appliance testing kits

Martindale offers a range of professional PAT kits designed for both new or experienced users. These comprehensive kits provide all the additional items needed for PAT testing including pass / fail labels and adaptors. For full details go to the Martindale website: www.martindale-electric.co.uk

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, PATREG Register Book, PL13 Plug Lock Out, PAT testing labels LAB1, LAB2 and FAIL1. TL151, TL152, TL153 and TL154 3-Phase Adapters.

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Ver. F1.3

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