



### HPAT425 features

- Compact, portable design
- High-quality greyscale display
- Clear and simple PASS / FAIL indication
- 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 saving mode
- Verification certificate with calibration data included

### HPAT550 added features

- PASS / FAIL indication with measured values
- Full colour display with help screens
- Earth bond probe nulling

### HPAT650 added features

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

	HPAT425	HPAT550	HPAT650
Class I, Class II test & lead tests	✓	✓	✓
Pass / Fail Indication	✓	✓	✓
200mA Earth continuity test current	✓	✓	✓
Insulation Test Voltage 250V & 500V	✓	✓	✓
Rechargeable (via USB-C)	✓	✓	✓
Sequenced test mode	✓	✓	✓
Test values displayed		✓	✓
Greyscale display	✓		
Full colour display		✓	✓
Earth bond probe nulling		✓	✓
Single test execution mode			✓
Results storage (100 results)			✓
Substitute leakage test			✓
Selectable pass limits			✓

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.

All models feature a bright, high-quality display for user friendliness and can be charged via the integral USB-C charging port. The 250V insulation test option is ideal for surge-protected devices. The HPAT 550 and HPAT650 add PASS/FAIL value reporting, a colour display and test probe nulling. 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	HPAT425	HPAT550	HPAT650
<b>EARTH CONTINUITY</b>			
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	≤0.1Ω 0.11Ω to ≤0.30Ω long lead 0.31Ω to ≤0.50Ω extra long lead	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
<b>INSULATION</b>			
Test voltage	User selectable >250V DC at 1mA / >500V DC at 1mA (<312.5V DC open circuit / <625V DC open circuit)		
Test current	<2mA (into short circuit)		
Range	0.01MΩ - 100MΩ		
Resolution	-	0.01MΩ (10kΩ - 2MΩ), 0.1MΩ (2MΩ - 20MΩ), 1MΩ (20MΩ - 100MΩ)	
Accuracy	± (5% of 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
<b>SUBSTITUTE LEAKAGE TEST</b>			
Test voltage	-	-	<50V AC (into open circuit) 0.02-20mA DC (into short circuit)
Accuracy	-	-	± (5% reading + 2 digits)
Pass level	-	-	≤5mA
<b>MEMORY</b>			
Test records	-	-	100 tests stored for on-screen recall
<b>POWER</b>			
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		
<b>ENVIRONMENTAL</b>			
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		
<b>GENERAL</b>			
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](http://www.martindale-electric.co.uk)

### Includes

**HPAT425:** TL67 earth bond probe, EX322 IEC adaptor lead, TC57 carry case, USB-A to USB-C cable, instruction manual and verification certificate.

**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.

Martindale Electric Co. Ltd.  
Metrohm House, 12 Imperial Park,  
Imperial Way, Watford WD24 4PP.  
T: +44 (0)1923 441717  
[www.martindale-electric.co.uk](http://www.martindale-electric.co.uk)  
[sales@martindale-electric.co.uk](mailto:sales@martindale-electric.co.uk)

### Ver. G1.0

Due to policy of continuous development, Martindale Electric reserves the right to alter equipment specification and description outlined in this document without prior notice. No part of this document shall be deemed to be part of any contract for the equipment unless specifically referred to as an inclusion within such contract. © 2026 Martindale Electric Co. Ltd.