

SMARTPAT

Manual PAT Tester with auto sequences & 230/110V run test. Remote APP control option.



PRODUCT DATA SHEET

- Battery operated
- Remote connectivity
- Automatic test sequences
- Customisable auto tests with the KEWPAT APP
- Appliance status pre-check
- PASS / FAIL – Green / Red screens
- Fast continuity test
- 5 second continuity test
- 250V Insulation
- 500V Insulation
- Substitute leakage test
- 110V & 230V run / leakage test
- Extension lead test - with L-N ins. test
- PRCD testing – without tripping the installed RCD
- Test lead nulling
- Backlight

ACCESSORIES

- Mains leads
- Earth lead with probe and croc clip
- Extension lead adapter
- Carry bag with strap
- Quickstart manual
- End of line Cal Cert

OPTIONAL

- Pass & Fail labels
- PATLOG1 PAT testing record log book
- Calibration Certificate
- KEWPAT APP

APPLICABLE STANDARDS

Safety	IEC/EN61010-1 CAT II 300V-instrument IEC/EN61010-2-030 IEC/EN61010-031 CAT III 600V
EMC	EN61326-1, 2-2
Possible number of measurements where battery voltage is within the effective range (measuring every 30 sec)	Approx. 1400 times (CLI Rpe: 0 Ω, Rins: 1.1 MΩ)

SPECIFICATIONS

PROTECTIVE CONDUCTOR RESISTANCE TEST

Measuring range	0.00 - 20.00 Ω (NULL value inc)*
Over-range indication	> 20.00 Ω
Resolution	0.01Ω
Open-circuit voltage	5 V ±0.4 V DC
Measuring current	200 mA DC (nominal value)
Accuracy	±3%rdg ±5dgt

* Resistances exceeding 3 Ω cannot be cancelled by NULL function.

MAINS VOLTAGE

Display range	30 - 270 V
Hi/ Lo indication	< 30 V: No voltage indication > 270 V: 270 V
Resolution & Accuracy	1 V ±3%rdg ±5dgt

INSULATION

Rated voltage	250V	500V
Measuring range	0.00 - 20.00 MΩ	
Over-range indication	> 20.00 MΩ	
Resolution	0.01 MΩ	
No-load voltage	250 V DC +20%, -0%	500 V DC +20%, -0%
Short-circuit current	1.5 mA DC or less	
Rated current	1 -1.2 mA with a load of 0.25 MΩ	1 to 1.2 mA with a load of 0.5 MΩ
Accuracy	±2%rdg±3dgt	

SUBSTITUTE LEAKAGE

Measuring range	0.10 - 12.00 mA rms
Over-range indication	> 12.00 mA
Resolution	0.01mA
Open-circuit voltage/ Freq.	30 V ±5 V rms / 50 Hz ±5%
Measuring current	1.2 mA AC ±0.5 mA (when measuring 12.00 mA)
Accuracy	±3%rdg±5dgt

INSULATION TEST BETWEEN L-N

Open-circuit voltage	4.5 V ±0.5 V DC
Criteria of judgement	100 kΩ ±20 kΩ or less: LCD shows "<0.10 MΩ" and the measurement is halted.

RUN LEAKAGE

Item	Load current	Leakage current
Mains voltage range	100 - 253 V / 50 Hz	
Measuring range	0.10 - 13.00 A rms	0.10 - 20.00 mA rms
Display range	0.00 - 13.00 A	0.00 - 20.00 mA
Over-range indication	> 13.00 A	> 20.00 mA
Resolution	0.01A	0.01mA
Accuracy	±10%rdg ±5dgt	±3%rdg ±5dvt
Max. rating	3 kVA max. / 15 sec. cont.	

RCD TEST

Rated voltage	230 V - 15% to +10% / 50Hz	
Rated current	10 mA / 30 mA	
Test duration	×1: 0.0 ms - 500.0 ms	×5: 0.0 ms - 40.0 ms
Test current accuracy	2% - 8%	
Operating time accuracy	±2 ms (≤ 40 ms) ±8 ms (>40 ms)	