



# KMP7100

## Dual Function Loop / RCD Tester

Properly working grounding system and active protection are a "must have" to assure safety of people, the electrical systems and buildings. Robin-Amprobe KMP7100 is a dual function installation tester designed to check if ground resistance and RCD provide sufficient protection.

- **Loop Functions:**
  - Non trip loop test on passive RCDs
  - Fast testing
  - 20, 200 & 2000 $\Omega$  loop measurement ranges
  - PSC measurement up to 20kA
  - Displays mains voltage before test
  - Instant correct wiring status check
- **RCD Functions:**
  - Three levels of trip currents (X1/2, X1, X5) for complete range of testing applications
  - Phase switch selection 0° and 180° for positive and negative semi-cycle testing
  - RCD Half-Wave (DC) test.
  - Auto RCD test
  - Selectable 25V/50V fault voltage for RCD test
- Designed to allow testing to BS7671 IEE 17<sup>th</sup> Edition regulations
- Displays mains voltage before test
- "Test lock" for automatic start test when connected to circuit
- Dual measurement result display - primary display for RCD/Loop measurement, secondary display for circuit voltage
- Built-in Volt meter
- Large, backlit display
- Low battery indication
- Safety CAT III 300V

## KMP7100 Dual Function Loop / RCD Tester

## Data Sheet

### Specifications (At 23°C ± 5°C, 45% ~ 75% RH)

Operating Test Voltage (Loop and RCD)	230Vac, 45Hz ~ 65 Hz	+10% to -15%
Earth Loop Impedance 20Ω	0.01Ω ~ 19.99Ω @ Nominal Test Current 25A	±(3% rdg + 4 LSD)
Earth Loop Impedance 200Ω	20.0Ω ~ 199.9Ω @ Nominal Test Current 2.3A	±(3% rdg + 4 LSD)
Earth Loop Impedance 2000Ω	200Ω ~ 1999Ω @ Nominal Test Current 15mA	±(3% rdg + 4 LSD)
Non Tripping Loop Test 20Ω	0.01Ω ~ 19.99Ω	±(3% rdg + 6 LSD)
Non Tripping Loop Test 200Ω	20.0Ω ~ 199.9Ω	±(3% rdg + 7 LSD)
Prospective Short Circuit Current (PSC) 200A / 2000A / 20kA	0.0 ~ 199.9A / 1999A / 19.9kA	PSC accuracy derived from measured loop impedance specification and measured voltage specification
RCD Test Current	10 / 30 / 100 / 300 / 500mA	0% to +10% @ 1Δn and 5Δn -10% to 0% @ ½Δn
RCD Trip Times @ X½	0 ~ 2000ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
RCD Trip Times @ X1 (selective)	0 ~ 1000ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
RCD Trip Times @ X1	0 ~ 1000ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
RCD Trip Times @ X5	0 ~ 40ms (10 / 30 / 100mA)	±(1% rdg + 2 ms)
RCD Auto Test	X½ / X1 / X5 (10 / 30 / 100mA)	Trip time: ±(1% rdg + 2 ms) Trip current: 0% to +10% @ 1Δn and 5Δn -10% to 0% @ ½Δn
RCD RAMP Test	X½ / X1 / X5 (10 / 30 / 100 / 300 / 500mA)	50% ~ 110% Default nominal residual currents (IΔn). Increasing by 10%, total 7 steps of residual current.
Fault Voltage Detection (N – PE conductor)	Selectable 25V or 50Vac	
Voltage Measurement	0Vac ~ 600Vac	± (2% rdg + 3 LSD) @ 45Hz ~ 65 Hz
Operating Temperature	0°C to +40°C, ≤ 85% RH, no condensation	
Storage Temperature	-20°C to +60°C, ≤ 90% RH, no condensation (without batteries)	
Power Supply	1.5V Alkaline Battery (AA Battery) × 8 pcs	
Dimensions (L x W x H)	189 x 168 x 85 mm (7.43 x 6.65 x 3.35 in)	
Product Weight	Approx. 1.3g (2.87 lb)	
Regulation Compliance	Designed to allow testing to BS7671 IEE 17 <sup>th</sup> Edition regulations BS EN 61010-1 CAT III 300V BS EN 61557-1 / -3 / -6 / -10 BS EN 61326-1 (EMC)	
Included Accessories	3-wires mains test cord with UK plug, test leads x 3, test probes x 3, alligator clips x 3, batteries ( 8 x AA), users manual, strap and carrying case	



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