



# KTS1625

## Digital Multifunction Tester

### (Insulation / Continuity / Loop / RCD / Voltage)

Safety and performance are two most critical requirements for every electrical system. The quality of insulation, properly working grounding system and active protection are "must have" to assure safety of the people, electrical systems and buildings against electrocution, fire, and other equipment damage. They are critical to prevent loss of productivity due to power interruption.

Robin-Amprobe KTS1625 is a multifunction installation tester measuring various parameters of the electrical system to provide complete safety analysis. It features loop impedance measurements as well as measurement of continuity and insulation resistance of motors, transformers or wires, testing of RCD systems, measuring voltage and frequency.

- **Insulation Function**
  - Selectable test voltages 250V, 500V and 1000V
- **Continuity Function**
  - Continuity test @ 200mA (short-circuit)
- **Line / Loop Impedance Functions**
  - Non Trip Loop test
  - Fast testing
  - Prospective earth fault current
  - Prospective short-circuit current
- **RCD Functions:**
  - Three levels of trip currents (X $\frac{1}{2}$ , X1, X5) for complete range of testing applications
  - Phase switch selection 0° and 180° for positive and negative semi-cycle testing
  - RAMP slope measurement
  - Tests time-delayed RCD's (S-type)
  - RCD Half-Wave test
  - Auto RCD test
- Designed to allow testing to BS7671 IEE 17<sup>th</sup> Edition regulations
- Voltage and frequency measurements
- Instant correct wiring status check
- Dual measurement result display
- Large, backlit display
- Low battery indication
- Safety CAT III 300V

## KTS1625 Digital Multifunction Tester

## Data Sheet

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

<b>Insulation Resistance @ 250V/500V/1000V (Test Current ≥ 1mA)</b>	0.00MΩ ~ 250MΩ @ 250V 0.00MΩ ~ 500MΩ @ 500V 0.00MΩ ~ 1000MΩ @ 1000V (Buzzer threshold: 2MΩ)	±(5% rdg + 5 LSD)
<b>Continuity @ I<sub>N</sub> ≥ 200mA, U<sub>o</sub>=5Vdc (Nominal)</b>	0.00Ω ~ 199Ω (Buzzer threshold: 20Ω)	±(2% rdg + 5 LSD)
<b>Voltage Measurement</b>	0V ~ 400V	±(5% rdg + 2 LSD) @ 45 to 65Hz / DC
<b>Operating Test Voltage (Loop and RCD)</b>	230Vac, 45Hz ~ 65 Hz	+10% to -15%
<b>Line Impedance (L – N) @ 25A</b>	0.01Ω ~ 1.99Ω / 19.9Ω / 0.20kΩ / 2.00kΩ	±(5% rdg + 5 LSD)
<b>Loop Impedance (L – PE) @ 25A</b>	0.01Ω ~ 1.99Ω / 19.9Ω / 0.20kΩ / 2.00kΩ	±(5% rdg + 5 LSD)
<b>Loop Impedance without Tripping @ 15mA</b>	0.01Ω ~ 1.99Ω / 19.9Ω / 0.20kΩ / 2.00kΩ	± (5% rdg + 12 LSD + Noise Margin (0.01 - 1.99Ω))
<b>Prospective Short Circuit Current (PSC) @ 25A Prospective Earth Fault Current (PFC) @ 25A</b>	0.00A ~ 1.99A / 2.0A ~ 19.9A / 20A ~ 199A / 200A ~ 1.99kA / 2.0kA ~ 26kA	PSC / PFC accuracy derived from measured loop impedance specification and measured voltage specification
<b>RCD Test Current</b>	10 / 30 / 100 / 300 / 500mA	0% to +10% @ 1Δn and 5Δn -10% to 0% @ ½Δn
<b>RCD Trip Times @ X½</b>	0 ~ 2000ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
<b>RCD Trip Times @ X1 (selective)</b>	0 ~ 500ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
<b>RCD Trip Times @ X1</b>	0 ~ 300ms (10 / 30 / 100 / 300 / 500mA)	±(1% rdg + 2 ms)
<b>RCD Trip Times @ X5</b>	0 ~ 40ms (10 / 30 / 100mA)	±(1% rdg + 2 ms)
<b>RCD Auto Test</b>	X½ / X1 / X5 (10 / 30 / 100mA)	Trip time: ±(1% rdg + 2 ms) Trip current: 0% to +10% @ 1Δn and 5Δn -10% to 0% @ ½Δn
<b>RCD RAMP Test</b>	X½ / X1 / X5 (10 / 30 / 100 / 300 / 500mA)	50% ~ 110% Default nominal residual currents (IΔn). Increasing by 10%, total 7 steps of residual current.
<b>Fault Voltage Detection (N – PE conductor)</b>	50Vac or more	
<b>Operating Temperature</b>	0°C to +40°C, ≤ 85% RH, no condensation	
<b>Storage Temperature</b>	-20°C to +60°C, ≤ 90% RH, no condensation (without batteries)	
<b>Power Supply</b>	1.5V Alkaline Battery (AA Battery) × 8 pcs	
<b>Dimensions (L x W x H)</b>	189 x 168 x 85 mm (7.43 x 6.65 x 3.35 in)	
<b>Product Weight</b>	Approx. 1.3 kg (2.87 lb) with batteries installed	
<b>Regulation Compliance</b>	Designed to allow testing to BS7671 IEE 17 <sup>th</sup> Edition regulations BS EN 61010-1 CAT III 300V BS EN 61557-1 / -2 / -3 / -4 / -6 / -10 BS EN 61326-1 (EMC)	
<b>Included Accessories</b>	3-Wires mains test cord set, test leads x 3, test probes x 3, alligator clips x 3, test probe with remote test button, batteries ( 8 x AA), users manual, strap and carrying case	

