



Order Code : 20213590.1.6

Name : Multi function Meter



Product overview:

- Multifunction Installation Tester is the ideal choice for hard working professionals
- Installation tester delivers the full-featured functionality and advanced measurement capabilities that professional installers need. It is compact and lightweight (less than 1.3 kg) and comes with a padded carrying and waist strap for convenient handling. Operation is intuitive and easily mastered by all levels of workers so you can put it to work immediately for quick and efficient testing to all local regulations. Additional helpful features like On/Off switchable auto-start for RCD and loop test, and self-test save time and give you more confidence in your results.
- Other useful capabilities:
 - Checks wiring polarity to detect broken N wires
 - Measures insulation resistance and loop and line resistance
 - Includes Z-max memory for loop tests to support easy evaluation of the highest loop test value
 - Provides unique zero adapter for fast, reliable and accurate test lead and mains cord compensation
 - Measures motor windings with continuity test
 - Calculates prospective earth fault current (PEFC/IK) and prospective short-circuit current (PSC/IK)
 - Measures RCD switching time and tripping level (ramp test)
 - Measures trip time and current for RCD type A & AC in one test
 - Measures RCD variable current
 - Provides automatic RCD test sequence
 - Includes a phase sequence indicator
 - Safety rated CAT III 500V, CAT IV 300V
- Comes with hard carrying case, padded carrying and waist strap, and remote control probe and lead

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

TESCA TECHNOLOGIES PVT. LTD.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302029, Rajasthan, India.

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Key features

- Full featured tester for installation professionals
- Tests to all local regulations and provides test results for complete documentation
- Tests continuity at L-N, N-PE inputs
- Tests smooth dc sensitive RCDs (Type B)
- Tests earth resistance, voltage, and frequency
- Offers multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V
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Specifications:

AC voltage measurement	
Range	500 V
Resolution	0.1 V
Accuracy 45 Hz – 66 Hz	0.8% + 3
Input impedance	360 k Ω
Overload protection	660 V rms
Continuity testing (RLO)	
Range (autoranging)	20 Ω / 200 Ω / 2000 Ω
Resolution	0.01 Ω / 0.1 Ω / 1 Ω
Open Circuit Voltage	>4 V
Insulation resistance measurement (RISO)	
Test voltages	50-100-250-500-1000 V
Accuracy of tTest voltage (at rated test current)	+10%, -0%
Test voltage	50 V 100 V 250 V 500 V 1000 V
Insulation resistance range	20 M Ω /50 M Ω 20 M Ω / 100 M Ω 20 M Ω / 200 M Ω 20 M Ω / 200 M Ω / 500 M Ω 20 M Ω / 200 M Ω / 1000 M Ω

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	0.01 MΩ / 0.1 MΩ						
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Resolution	0.01 MΩ / 0.1 MΩ						
	0.01 MΩ / 0.1 MΩ / 1 MΩ						
	0.01 MΩ / 0.1 MΩ / 1 MΩ						
	1 mA @ 50 kΩ						
	1 mA @ 100 kΩ						
Test current	1 mA @ 250 kΩ						
	1 mA @ 500 kΩ						
	1 mA @ 1 MΩ						
Loop and line impedance (ZI)							
Range	10 Ω / 0.001 Ω / High current mΩ mode						
Resolution	0.01 Ω / 0.1 Ω / 1 Ω						
Prospective earth fault current, PSC test							
Range	1000 A / 10 kA (50 kA)						
Resolution	1 A / 0.1 kA						
Computation	Prospective earth fault current (PEFC) or Prospective short circuit current (PSC) determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance, respectively.						
RCD testing, RCD types tested							
RCD Type	AC ¹ G ² ,S ³						
Model 1663	A4, AC ¹ , G ² ,S ³						
Notes	¹ Responds to AC ² General, no delay ³ Time delay ⁴ Responds to pulsed signal ⁵ Responds to smooth DC signal						
Tripping speed test (ΔT)							
Current settings ¹	10-30-100-300-500-1000 mA - VAR 10-30-100 mA						
Multiplier	x 1/2, x 1 x 5						
Measurement range	<table border="1"> <tr> <td>RCD Type G</td> <td>310 ms</td> </tr> <tr> <td></td> <td>50 ms</td> </tr> <tr> <td>RCD Type S</td> <td>510 ms</td> </tr> </table>	RCD Type G	310 ms		50 ms	RCD Type S	510 ms
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	160 ms	
Notes	¹ 1000 mA type AC only 700 mA maximum type A in VAR mode VAR mode not available for type B.	
RCD/FI-Tripping Current Measurement/Ramp Test (I Δ N)		
Current range	30% to 110% of RCD rated current ¹	
Step size	10% of I Δ N ²	
Dwell time	Type G	300 ms/step
	Type S	500 ms/step
Measurement accuracy	±5%	
Specified trip current ranges (EN 61008-1)	50% to 100% for Type AC	
	35% to 140% for Type A (>10 mA) 35% to 200% for Type A (≤10 mA) 50% to 200% for Type B ² 5% for Type B	
Notes	¹ 30% to 150% for Type A I Δ N > 10 mA	
	30% to 210% for Type A I Δ N = 10 mA 20% to 210% for Type B	
Earth Resistance Test (RE)		
Range	200 Ω / 2000 Ω	
Resolution	0.1 Ω / 1 Ω	
Frequency	128 Hz	
Output Voltage	25 V	
Phase Sequence Indication		
Icon	 Phase Sequence indicator is active.	
General Specifications		
Size (L x W x H)	10 x 25 x 12.5 cm	
Weight (incl. batteries)	1.3 Kg	
Battery size, quantity	Type AA, 6 ea.	
Sealing	IP-40	
Safety	Complies with EN61010-1 Ed 2.0 (2001-02), UL61010, ANSI/ISA –s82.02.01 2000 and CAN/CSA c22.2 No. 1010 2nd edition	
Overvoltage	CAT III / 500V; CAT IV 300V	
Performance	EN61557-1 to EN61557-7 Second Edition and EN61557-10 Second Edition	

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