

Order Code : 20213590.1.7

Name : Installation testers



### Specifications:

<b>Insulation ranges</b>	
100 V	
250 V, 500 V	■
1000 V	■
Test voltage display	■
Adjustable buzzer threshold	■
<b>Continuity and resistance ranges</b>	
200 mA test	■
15 mA test	■
Adjustable buzzer threshold	■
<b>RCD tests</b>	
1/2 x I, 1 x I, 5 x I RAMP RCD test	■
2 x I	■
Fast ramp	■
Auto RCD test	■
Type A & AC RCDs	■
Type S RCDs	■
Type B (pure DC) RCDs	■
Programmable RCD	■
3-phase RCD (no Earth)	■
10 mA RCD	■
30 mA, 100 mA, 300 mA, 500 mA RCD	■
1000 mA RCD	■
<b>Earth test</b>	
2-pole**	■
3-pole**	■
3-pole ART technique**	
Stakeless method**	

<b>Loop testing</b>	
2-wire and 3-wire non-tripping L~PE	■
2-wire high current L~L & L~N	■
50 V to 480 V (L~N) 50 V to 280 V (L~PE)	■
Phase to Phase tests (L~L)	■
PSCC & PFC (20kA max)	■
Touch-voltage display (0 V~253 V)	■
<b>Other features</b>	
Supply measurement	■
True RMS	
Current measurement**	■
Phase rotation	■
Backlight	■
Auto power-down	■
Calibration certificate supplied	■
Rechargeable batteries/ charger included	
SP5 Switched probe included	■
3-year warranty (on registration)	■
Onboard memory with Bluetooth download	
CAT IV 300 V	■
IP54	■

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

### **TESCA TECHNOLOGIES PVT. LTD.**

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## SPECIFICATIONS

### Insulation test

<b>Output voltage</b>	-	-0% +20% at rated load or less
<b>Voltage display</b>	-	±3% ±3 digits ±0.5% of rated voltage
<b>Short circuit current</b>	-	1.5 mA nominal test current
<b>Test current on load</b>	-	1 mA at min pass value of insulation

### Insulation accuracy

1000 Volts	10 kΩ ~ 999 MΩ	±3% ±2 digits
500 Volts	10 kΩ ~ 500 MΩ	±3% ±2 digits
	>500 MΩ ±10%	±4 digits
250 Volts	10 kΩ ~ 250 MΩ	±3% ±2 digits
	>250 MΩ ±10%	±4 digits
100 Volts	10 kΩ ~ 100 MΩ	±3% ±2 digits
	>100 MΩ ±10%	±4 digits

### Resistance and continuity

0.01 Ω ~ 99.9 Ω	-	±2% ±2 digits
100 Ω ~ 99.9 kΩ	-	±5% ±2 digits
Open circuit voltage	-	5 V ±1 V
Test current (0 Ω ~ 2 Ω)	-	205 mA ± 5 mA
15 mA ±5 mA (user selectable)		

### Loop test

Live to earth supply - 48 V ~ 280 V (45 Hz ~ 65 Hz)  
Live to live supply- 48 V ~ 500 V (45 Hz ~ 65 Hz)  
L-N/L-L tests - ±5% ±3 digits

### L-E tests\*

0.1 Ω ~ 39.9 Ω ±5% - ±5 digits ± noise margin  
40.0 Ω ~ 999 Ω - ±10% ±5 digits  
Display range - 0.01 Ω ~ 999 Ω  
Live to earth PFC range - 20 kA  
Live to live PSCC range - 20 kA

\* Reference conditions apply.

For test environments see service data.

### RCD tests

#### Supply up to 100 mA

48 V ~ 480 V (45 Hz ~ 65 Hz)

#### Supply up to 1 A

48 V ~ 280 V

#### RCD type

Type AC, A, S  
Type B (pure dc)

#### No trip test

-10% ~ -0%  
(1/2xl)

#### Trip test

+0% ~ +10%  
(1xl, 2xl & 5xl)

#### Ramp test

**Touch voltage** +5% +15% ±0.5 V  
(0 ~ 253 V)

#### Trip time

±1% ±1 ms

#### Trip current

±3%

#### Step increments

**VAR** 10 mA ~ 50 mA 1 mA steps  
(variable RCD selection)  
50 mA ~ 500 mA 5 mA steps  
500 mA ~ 1000 mA 10 mA steps

## Supply measurement

<b>Voltage</b>	10 V ~ 600 V (15 ~ 400 Hz) True RMS ±3% ± 1 V ±2 digits
<b>Phase rotation indication</b>	L1-L2-L3 & L1-L3-L2
<b>Frequency</b>	15 Hz ~ 99 Hz ±0.5% ±1 digit 100 Hz ~ 400 Hz ±2.0% ±2 digits
<b>Frequency resolution</b>	0.1 Hz

### Earth / ground test

**Resolution** - 0.01 Ω

**Current** - 0.45 mA or 4.5 mA

**Noise rejection** 20 V pk/pk (7 V rms).

### Max probe resistances Rp & Rc

100 kΩ @ 50 V

5 kΩ @ 25 V

### 2 & 3 pole method

(0.01 Ω ~ 1.999 kΩ)

±2.0% ±3 digits

### ART method

(1.00 Ω ~ 1.999 kΩ)

±5.0% ±3 digits

### Stakeless method

(1.00 Ω ~ 199 Ω)

±7.0% ±3 digits

### Current

(via optional clamp meter)

±5.0% ±3 digits.

**Range** - 0.1 mA to 200 A ac

**Resolution** 0.1 mA

## ENVIRONMENTAL

**Operating temperature range and humidity** -10 °C ~ +55 °C  
90% R.H. at +40 °C max

**Temperature (storage)** -25 °C ~ +70 °C

**Maximum altitude** 2000 m

**Weight (instrument and case)** 1 kg (with batteries, excluding case)

**Dimensions (instrument and case)** 150 x 85 x 235 mm

**IP rating** IP54

**Calibration temperature** +20 °C

### TEMPERATURE EFFECTS

**Temperature coefficient** <0,1% per °C

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