



Product Datasheet

ENGLISH

Stock No: 144-5338

Multifunction Installation Tester

EN



Specifications

LOOP Resistance L- PE (Hi-Amp)

| Range(Ω) | Resolution(Ω) | Accuracy |
|-------------------|------------------------|-------------------------------|
| 0.23 9.99 | 0.01 | $\pm(4\%$ of reading+6digits) |
| 10.0~99.9 | 0.1 | |
| 100~999 | 1 | |

Measuring Current: 8.0 A~25.0 A

Range of the Voltage Used: 195V a.c. – 260V a.c. (50,60Hz)

Notes

[1] Valid for resistance of neutral circuit $<20\Omega$ and up to a system phase angle of 30° . Test leads must be zeroed before testing.

[2] Valid for mains voltage $>200V$.

L- PE (No Trip)

| Range(Ω) | Resolution(Ω) | Accuracy |
|-------------------|------------------------|--------------------------------|
| 0.23 9.99 | 0.01 | $\pm(5\%$ of reading+6 digits) |
| 10.0~99.9 | 0.1 | |
| 100~999 | 1 | |

Measuring Current: $< 15mA$

Range of the Voltage Used: 195V a.c – 260V a.c (50,60Hz)(50,60Hz)

Notes

1] Valid for resistance of neutral circuit $<20\Omega$ and up to a system phase angle of 30° . Test leads must be zeroed before testing.

[2] Valid for mains voltage $>200V$.

LINE Resistance L- N

| Range(Ω) | Resolution(Ω) | Accuracy |
|-------------------|------------------------|-------------------------------|
| 0.23 9.99 | 0.01 | $\pm(4\%$ of reading+4digits) |
| 10.0~99.9 | 0.1 | |
| 100~999 | 1 | |

Measuring Current: 4.0 A

Range of the Voltage Used: 195V a.c. – 260V a.c. (50,60Hz)

Notes

[1] Valid for resistance of neutral circuit $<20\Omega$ and up to a system phase angle of 30° . Test leads must be zeroed before testing.

[2] Valid for mains voltage $>200V$.

RCD (BSEN 61557-6)

Rcd Rating (I_n): 10mA, 30mA, 100mA, 300mA, 500mA, 650mA and 1A.

Test current: x1/2, x1, x2 and x5

RCD (BSEN 61557-6)

| Current Multiplier | Trip Time Accuracy |
|--------------------|---------------------------|
| x1/2 | $\pm(1\%$ of reading+1ms) |
| x1 | $\pm(1\%$ of reading+1ms) |
| x2 | $\pm(1\%$ of reading+1ms) |
| X5 | $\pm(1\%$ of reading+1ms) |

Form of the Test Current: Sine wave form (ac), Pulse wave form (dc)

RCD Form: General (G - non-delayed), Selective (S - time-delayed)

Initial Polarity of the Test Current: 0° , 180° .

Voltage Range: 195V a.c. - 260V a.c. (50Hz,60Hz)

Accuracy of the Current of the RCD: $\pm(5\%$ of reading + 1digits)

Resolution of the RCD Timing: 0.1ms

Voltage and Frequency

| Measurement Range (V)/AC-DC | Resolution(V) | Accuracy |
|-----------------------------|---------------|---------------------------|
| 80~500 | 1 | ±(2% of reading +2digits) |

| Measurement Range (Hz) | Resolution(Hz) | Accuracy |
|------------------------|----------------|----------|
| 45~65 | 1 | ±2Hz |

Insulation

| Terminal Voltage | Range | Resolution | Accuracy | Test Current | Short circuit current |
|------------------|----------------|------------|----------|----------------|-----------------------|
| 125V(0%~+10%) | 0.125~4.000 MΩ | 0.001MΩ | ± 3%+10) | 1mA @load125kΩ | ≤ 1mA |
| | 4.001~40.00 MΩ | 0.01MΩ | ±(2%+10) | | |
| | 40.01~400.0 MΩ | 0.1MΩ | ±(4%+5) | | |
| | 400.1~1000 MΩ | 1MΩ | ±(5%+5) | | |
| 250V(0%~+10%) | 0.250~4.000 MΩ | 0.001MΩ | ±(3%+10) | 1mA @load250kΩ | ≤ 1mA |
| | 4.001~40.00 MΩ | 0.01MΩ | ±(2%+10) | | |
| | 40.01~400.0 MΩ | 0.1MΩ | ±(3%+2) | | |
| | 400.1~1000 MΩ | 1MΩ | ±(3%+2) | | |
| 500V(0%~+10%) | 0.500~4.000 MΩ | 0.001MΩ | ±(3%+10) | 1mA @load500kΩ | ≤ 1mA |
| | 4.001~40.00 MΩ | 0.01MΩ | ±(2%+10) | | |
| | 40.01~400.0 MΩ | 0.1MΩ | ±(3%+2) | | |
| | 400.1~1000 MΩ | 1MΩ | ±(4%+5) | | |
| 1000V(0%~+10%) | 1.000~4.000 MΩ | 0.001MΩ | ±(3%+10) | 1mA @load1MΩ | ≤ 1mA |
| | 4.001~40.00 MΩ | 0.01MΩ | ±(2%+10) | | |
| | 40.01~400.0 MΩ | 0.1MΩ | ±(3%+2) | | |
| | 400.1~1000 MΩ | 1MΩ | ±(4%+5) | | |

Low Ohm

| Range | Resolution | Accuracy | Max. Open Circuit Voltage | Overload Protection |
|--------------|------------|------------|---------------------------|---------------------|
| 0.000~2.000Ω | 0.001Ω | ±(1.5%+30) | 5.0V±1VDC | 250Vrms |
| 2.00~20.00Ω | 0.01Ω | ±(1.5%+3) | | |
| 20.0~200.0Ω | 0.1Ω | | | |
| 200~2000Ω | 1Ω | ±(1.5%+5) | | |

Earth Resistance

| Range | Resolution | Accuracy |
|----------------------|---------------|----------------|
| 0.00~99.99 | 0.01 Ω | $\pm(2\%+30d)$ |
| 100.0~999.9 Ω | 0.1 Ω | $\pm(2\%+6d)$ |
| 1000~2000 Ω | 1 Ω | |

General Specification

| | |
|----------------------------------|---|
| Power Source | 8 x 1.5V AA Size Alkaline batteries or 8 x 1.2V AA Size rechargeable Ni-MH batteries |
| Battery Life | Average of 15hours |
| CAT Rating | CAT III 600V |
| Protection Classification | Double Insulation |
| Protection Rating | IP65 |
| LCD Screen Type | 3.5" TFT |
| Pixels | 320x240 |
| Operating Temp | 0°C~ 45°C 95% 10°C~ 30°C: Non-condensing |
| Relative Humidity | 75% 30°C~ 40°C |
| Storing Temp | -10°C~ 60°C |
| Operating Altitude | 2000m |
| Protective device | 500mA Fast response BS 88 Fuse |
| Dimensions | 24.2cm(L) x 10.5cm(W) x 14.5cm(H) |
| Weight | 1.56kg |