

## GENERAL SPECIFICATIONS

- Display** : 3 3/4 digit liquid crystal display LCD with a maximum reading of 3999.
- Polarity** : Automatic, positive implied, negative polarity indication.
- Overrange** : (OL) or (-OL) is displayed
- Zero** : Automatic
- Low battery indication** : A battery "BAT" symbol is displayed when the battery voltage drops below the operating level.
- Measurement rate** : 2.5 times per second nominal.
- Operating environment** : 0°C to 40°C at < 70 %RH
- Storage Temperature** : -20°C to 60°C, 0 to 80%RH with battery removed from meter.
- Accuracy** : Stated accuracy at 23°C±5°C, < 75%RH.
- Power** : single standard 9V battery.
- Battery life** : 150 hours typical.
- Dimensions** : 182 (H) x 82 (W) x55 (D) mm
- Weight** : 375g.
- Accessories** : Test leads, 9V battery, gift box with carrying case.
- Peak Hold** : To freeze the peak values
- Overload protection of 500V DC and AC in Resistance, Capacitance, Frequency, Logic, Continuity and Diode Test**
- Auto Power Off**



## TECHNICAL SPECIFICATIONS

### DC Voltage

Range	Resolution	Accuracy
400.0mV	0.1mV	± 0.5% of rdg ± 1 digits
4.000V	1mV	
40.00V	10mV	
400.0V	100mV	
1000V	1V	± 0.5% of rdg ± 1 digits

**Input Impedance** : 10MΩ

**Overload protection** : 500V DC or AC rms on 400mV range, 1000V DC or 750V AC on all other ranges.

### AC Voltage(50Hz-500Hz)

Range	Resolution	Accuracy
400.0mV	0.1mV	± 1.0% of rdg ± 4 digits
4.000V	1mV	
40.00V	10mV	
400.0V	100mV	
750V	1V	± 1.5% of rdg ± 4 digits

**Input Impedance** : 10MΩ

**Overload protection** : 500V DC or AC rms on 400mV range, 1000V DC or 750V AC on all other ranges.

### DC Current

Range	Resolution	Accuracy
40.00mA	10uA	± 1.0% of rdg ± 1 digits
400.0mA	100uA	
20A	10mA	± 3.0% of rdg ± 1 digits

**Input Protection** : 0.5A / 250V fast blow fuse 10A / 30sec. input "unfuse"

### AC Current(50Hz-500Hz)

Range	Resolution	Accuracy
40.00mA	10uA	± 1.5% of rdg ± 4 digits
400.0mA	100uA	
20A	10mA	± 3.5% of rdg ± 4 digits

**Input Protection** : 0.5A / 250V fast blow fuse 10A / 30sec. input "unfuse"

### Resistance

Range	Resolution	Accuracy
400.0Ω	0.1Ω	± 0.8% of rdg ± 4 digits
4.000kΩ	1Ω	
40.00kΩ	10Ω	± 0.8% of rdg ± 2 digits
400.0kΩ	100Ω	
4.000MΩ	1kΩ	± 3.0% of rdg ± 4digits
40.00MΩ	10kΩ	
400.0MΩ	100kΩ	± [(10% of rdg -20dgt) ± 10digits]

**Open circuit voltage:**

0.6V DC (3.0V DC on 400Ω and 400MΩ ranges)

**Overload protection:** 500V DC or AC rms.

### Continuity

**Audible indication** : < 100 Ω

**Overload protection** : 500V DC or AC rms.

### Diode Test

**Test current** : 1.0mA ± 0.6mA

**Open circuit voltage** : 3.0V DC typical.

**Overload protection** : 500V DC or AC rms.

### Capacitance

Range	Resolution	Accuracy
4.000nF	1pF	± 5.0% of rdg ± 10 dgt
40.00nF	10pF	
400.0nF	0.1nF	± 5% of rdg ± 10 dgt
4.000uF	1nF	
40.00uF	10nF	

**Test Frequency:** about 400Hz

### Frequency (Auto-ranging)

**Ranges** : 4kHz, 40kHz, 400kHz, 4000kHz

**Accuracy** : + (0.1%rdg + 1dgt)

**Sensitivity** : 200mV (10Hz-4kHz); 2V (4kHz ~4MHz)

**Logic reading** : 10-3999

### Logic Test

**Threshold** : Logic Hi(2.8+0.5V),  
Logic Lo(0.8+0.5V)

**Indication** : 40 msec beeper at logic low

**Frequency response** : 20MHz

**Detectable pulse width:** 25nS

**Pulse limits** : > 30% & < 70% duty

**Overload protection** : 500V DC or AC rms

### OPTIONAL ACCESSORIES:

- Infra-red non contact temperature adaptor to measure temperature from -30°C to 550°C with fixed emissivity of 0.95 and distance to sighting ratio of 8:1. Model TS-03
- Clamp on Current Adaptor to measure current up to 1000A. Model CA-1000D
- Clamp on Current Adaptor to measure upto 200A AC. Model CA-01

\*Technical Specifications & Appearance are subject to change without prior notice