



LCR999A

**Features**

- Basic measurement accuracy 0.1% & speed upto 10 meas / sec.
- Large LCD display with bright white backlight.
- Ultra low power consumption, battery powered for 24 hours of continuous use.
- Automatic identification function (Ai).
- Percentage display & 4 tolerance comparator : 1%, 5%, 10% & 20%
- 9V battery & External power supply
- Automatic correction function with datahold, max. / min. / average recording.
- Utility function configuration & current setup recovery after power off.
- Standard Mini-USB interface, SCPI compatible
- Auto power Off
- Constant output impedance : 100 ohm

**Application**

- Field maintenance test & external carrying test.
- Fixation point on production line or mobile checkout.
- Warehouse & real time spot or batch inspection.
- Flow inspect and in field measurements.

**Specifications**

| Function                    |  |   |
|-----------------------------|--|---|
| Measurement Parameter       | Primary Parameters : L / C / R / Z   | Secondary Parameter : D / Q / $\theta$ / ESR                                      |
| Equivalent Mode             | Series, Parallel   |   |
| Auto LCR Function           | Manual / Auto  |   |
| Ranging Mode                | Auto   |   |
| Test Terminals              | 2-Terminal, 4-Terminal, 5-Terminal   |   |
| Measurement Speed           | 10 meas/sec ( fast), 5 meas/sec (med), 2 meas/sec (slow)   |   |
| Correction                  | Short , Open   |   |
| Tolerance Mode              | 1%, 5%, 10%, 20%   |   |
| Input Protection Fuse       | 0.1A / 63V   |   |
| Interface                   | Mini-USB (Virtual Serial Port)   |   |
| Test Signal                 |  |   |
| Signal Frequency            | 100Hz, 120Hz, 1KHz, 10KHz  |   |
| Test Signal Level           | 0.6 Vrms   |   |
| Output Impedance            | 100 $\Omega$   |   |
| Basic Accuracy              | 0.1%   |   |
| Measuring Range             | L  | 4 $\mu$ H ~ 1000H Range for Display 0.001 $\mu$ H ~ 1000.0H                       |
|                             | C  | 4pF ~ 20mF Range for Display 0.001pF ~ 20.000mF                                   |
|                             | R / Z  | 0.4 $\Omega$ ~ 10M $\Omega$ Range for Display 0.0001 $\Omega$ ~ 10.000M $\Omega$  |
|                             | ESR  | Range for Display 0.0000 $\Omega$ ~ 999.9 $\Omega$ , Resolution : 0.0001 $\Omega$ |
|                             | D  | Range for Display 0.0000 ~ 9.999, Resolution : 0.0001                             |
|                             | Q  | Range for Display 0.0000 ~ 9999, Resolution : 0.0001                              |
| $\theta$                    | Range for Display - 179.9 $^{\circ}$ ~ 179.9 $^{\circ}$ , Resolution : 0.01 $^{\circ}$   |   |
| Environment                 | 0 $^{\circ}$ C ~ 40 $^{\circ}$ C, $\leq$ 90% RH  |   |
| Power Supply                |  |   |
| Battery Model               | 7.2V Ni-MH 600mAH Rechargeable Battery   |   |
| AC Adaptor                  | Input : 220V (1 $\pm$ 10%), 50Hz (1 $\pm$ 5%) : Output 12V DC  |   |
| Charge Time & Current       | Continuous Charge Time : Max. 80min.   | Charge Current : Max. 150mA   |
| Battery Capacity Indication | Real Time Display on LCD   |   |
| General                     |  |   |
| Dimensions                  | 193 x 93 x 48mm  |   |
| Weight                      | 395gms (approx.)   |   |
| Safety and EMC compliance   | IEC 61010-1 : 2001, IEC 61326-2-1 : 2005   |   |
| Accessories                 | Manual, Short Circuit Plate x 1, 7.2V Ni MH Rechargeable Battery (installed) x 1, 12V/300mA AC Adapter x 1, 5 Terminal Kelvin Test Leads x 1<br><b>Optional</b> : SMD 4 Terminal Kelvin Test Tweezers x 1, Banana Plugs-Crocodile Clip Test Leads x 1, Mini USB Communication Cable & S/W CD |   |