

## GENERAL POLYTRONIC SYSTEMS LTD.

### PASSIVE COMPONENT LCR METER

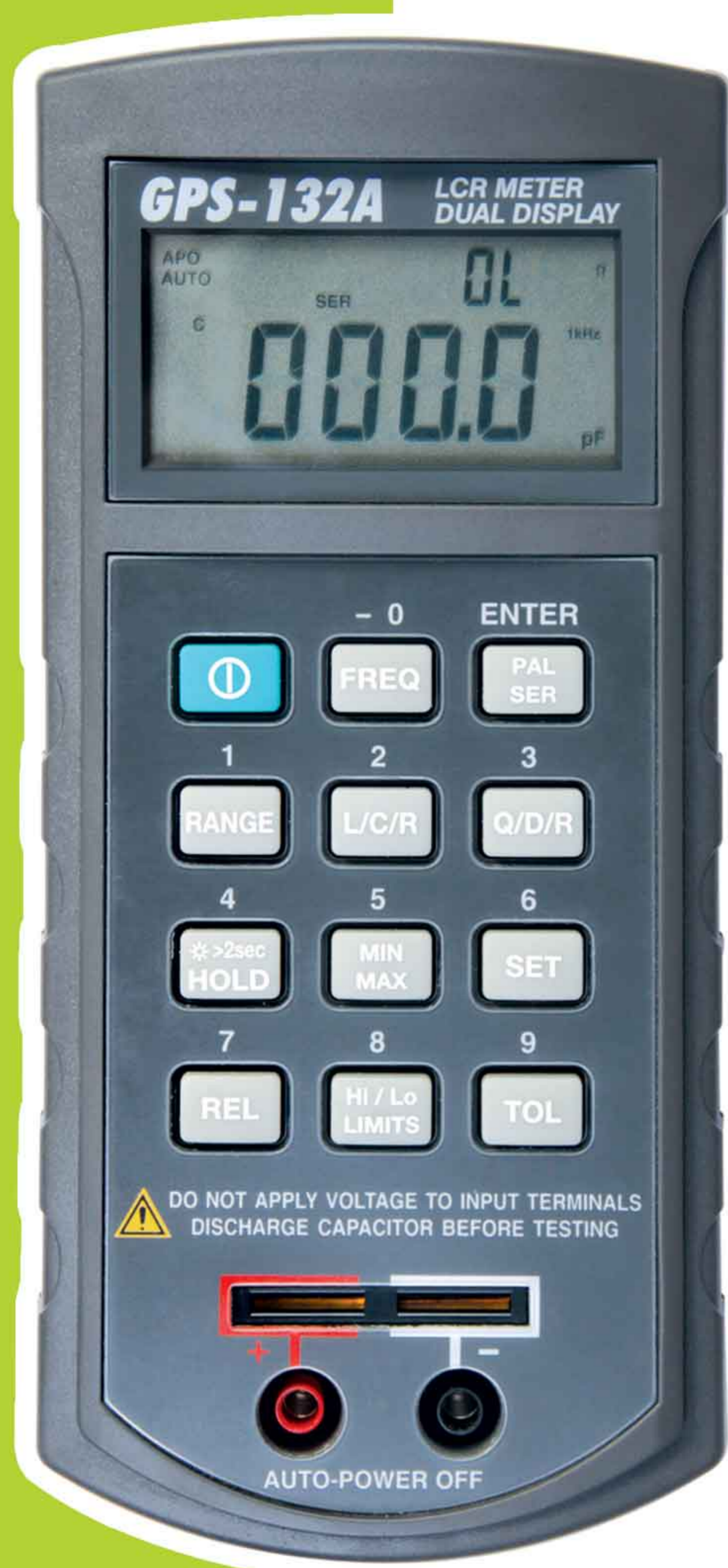
Measure Inductance, Capacitance and Resistance with secondary parameter (Q,D,R)

#### GPS-132A

Handheld Digital LCR Meter

#### • Features

- Dual displays provide quick tested results readouts, with L.C.R. display values up to 19999 counts and Q.D.R. display values up to 9999 counts
- Basic Accuracy, 0.7% Capacitance and Inductance, for Resistance 0.5%
- Excellent resolutions; Resistance up to 0.001  $\Omega$ , Inductance, capacitance up to 0.1 $\mu$ H / 0.1pF
- Auto/Manual Ranging
- Measurement Parameters: L.C.R.D. Q. and RAC
- Test Frequency: 120Hz/1KHz, Dual testing frequency capability
- Parallel/Serial circuit mode selection
- Tolerance mode selection
- Overmolded case, integrated holster
- Static recording (Max/Min/Avg)
- External DC power operation
- Relative mode
- Auto power off
- Optical RS-232C interface
- Backlit, easy to read LCD display
- Limitation Warning Function
- Fuse detection function



## GPS-132A

Handheld Digital LCR Meter

### • General Specification

- Display: 4 ½ digit liquid crystal display (LCD).
- Operating environment: 0°C to 50°C at < 80% RH.
- Storage environment: -20°C to 60°C at 0 to 80% RH.
- Power: Single standard 9-volt battery, NEDA 1604, IEC6F22.
- External power: minimum 12V, maximum 15V, and at least minimum 50mA.
- Dimensions: 19.2 x 9.1 x 5.25 cm
- Weight: About 365g (Including battery and holster).
- Standard accessories: A pair of test leads, user manual, 9V battery, software and RS232 optical cable

### • Specifications

#### Capacitance

| Range  | Min.  | Max.      | Accuracy @ 120Hz Test Frq. | Accuracy@ 1KHz Test Frq. |
|--------|-------|-----------|----------------------------|--------------------------|
| 20mF   | 1μF   | 10.000mF  | ±(5.0% rdg + 5 counts)     | -----                    |
| 2000μF | 100nF | *1999.9μF | ±(1.0% rdg + 5 counts)     | ±(5.0% rdg + 5 counts)   |
| 200μF  | 10nF  | 199.99μF  | ±(0.7% rdg + 3 counts)     | ±(1.0% rdg + 3 counts)   |
| 20μF   | 1nF   | 19.999μF  | ±(0.7% rdg + 3 counts)     | ±(0.7% rdg + 3 counts)   |
| 2000nF | 100pF | 1999.9nF  | ±(0.7% rdg + 3 counts)     | ±(0.7% rdg + 3 counts)   |
| 200nF  | 10pF  | 199.99nF  | ±(0.7% rdg + 5 counts)     | ±(0.7% rdg + 5 counts)   |
| 20nF   | 1pF   | 19.999nF  | ±(1.0% rdg + 5 counts)     | ±(0.7% rdg + 5 counts)   |
| 2000pF | 0.1pF | 1999.9pF  | -----                      | ±(1.0% rdg + 5 counts)   |

\* 1000.0μF @ 1KHz test frequency

#### Inductance

| Range  | Min.  | Max.     | Accuracy @ 120Hz Test Frq. | Accuracy@ 1KHz Test Frq. |
|--------|-------|----------|----------------------------|--------------------------|
| 20000H | 1H    | 10000H   | Not specified              | -----                    |
| 2000H  | 100mH | *1999.9H | ±(1.0% rdg + 5 counts)     | Not specified            |
| 200H   | 10mH  | 199.99H  | ±(0.7% rdg + 5 counts)     | ±(1.0% rdg + 5 counts)   |
| 20H    | 1mH   | 19.999H  | ±(0.7% rdg + 5 counts)     | ±(0.7% rdg + 5 counts)   |
| 2000mH | 100μH | 1999.9mH | ±(0.7% rdg + 5 counts)     | ±(0.7% rdg + 5 counts)   |
| 200mH  | 10μH  | 199.99mH | ±(1.0% rdg + 5 counts)     | ±(0.7% rdg + 5 counts)   |
| 20mH   | 1μH   | 19.999mH | ±(2.0% rdg + 5 counts)     | ±(1.2% rdg + 5 counts)   |
| 2000μH | 0.1μH | 1999.9μH | -----                      | ±(2.0% rdg + 5 counts)   |

\* 1000.0H @ 1KHz test frequency

#### Resistance

| Range | Min.  | Max.     | Accuracy @ 120Hz / 1KHz Test Frq. |
|-------|-------|----------|-----------------------------------|
| 10MΩ  | 1KΩ   | 10.000MΩ | ±(2.0% rdg + 8 counts)            |
| 2MΩ   | 100Ω  | 1.9999MΩ | ±(0.5% rdg + 5 counts)            |
| 200KΩ | 10Ω   | 199.99KΩ | ±(0.5% rdg + 3 counts)            |
| 20KΩ  | 1Ω    | 19.999KΩ | ±(0.5% rdg + 3 counts)            |
| 2KΩ   | 100mΩ | 1.9999KΩ | ±(0.5% rdg + 3 counts)            |
| 200Ω  | 10mΩ  | 199.99Ω  | ±(0.8% rdg + 5 counts)            |
| 20Ω   | 1mΩ   | 19.999Ω  | ±(1.2% rdg + 8 counts)            |



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