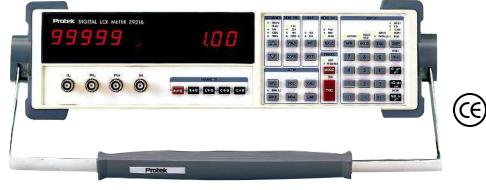
- 0.2% basic accuracy
- Wide measurement range over13 orders of magnitude
- Store and recall 9 instrument setups
- Measurement rates to 20 times per second
- Test frequencies are 100Hz, 120Hz, 1kHz, 10kHz and 100kHz
- Displays component value and Q or Dissipation factor
- Averaging for 2 to 10 measurements
- RS-232 and optional GPIB and Handler interface
- Open and short circuit compensation for accurate zeroing
- Easy to use and calibrate
- Built-in calibration procedures
- Binning capabilities



Z9216

SPECIFICATIONS

Measured Components

L (inductance) C (capacitance) R (resistance) Measured Circuit Configurations: series and parallel

Measurements

- Resistance
- Measured Parameter: R + QMeasurement Ranges: $R: 0.0001 \Omega$ to 2000 $M\Omega$ Q: 0.0001 to 50 Inductance Measured Parameter: L + QMeasurement Range: L: 0.0001 μ H to 99999 H Q: 0.0001 to 50 Capacitance Measured Parameters: C + D and C + RMeasurement Range: C: 0.0001 pf to 99999 μ F

D: 0.00001 to 10; R: 0.00001 K Ω to 9999 K Ω Display: Values, % deviation, or bin number

Test Environment

Test Frequencies: 100Hz, 120Hz, 1kHz, 10kHz and 100kHz Frequency Accuracy: $\leq \pm 100$ PPM Drive Voltages: Fixed: 0.10, 0.25, 1.0 V RMS; Vernier: 0.1 to 1.0 V RMS (50 mV resolution) Drive Voltage Accuracy: $\pm 2\%$

Measurement Rates:

(For test frequencies of 1kHz or greater): Slow: 2 measurements/Sec Medium: 10 measurements/Sec Fast: 20 measurements/Sec (For test frequencies of 100Hz and 120Hz): Slow: 0.6 measurements/Sec Medium: 2.4 measurements/Sec Fast: 6 measurements/Sec Bias Voltage: Internal: +2.0 V DC ±2%; External: 0 to +40 V DC Input Protection: 0.25A/250V Fuse Ranging: Auto or manual Triggering: Continuous, manual or remote (from the RS-232, GPIB or handler interface)

Measurement Accuracy

 Basic Accuracy: \pm 0.2% with the following conditions:

 1. An ambient temperature of 23°C \pm 5°C after a 30 minute warm up period.

 2. The short and open Cal has been performed.

 3. D < 0.1 for capacitance, Q < 0.1 for resistance and Q > 10 for inductance.

 The component value, measurement rate and frequency determine the actual measurement accuracy. (See the user manual).

 Zeroing Correction: Open and short circuit compensation

Remote Operation: Interfaces: RS-232 (25 pin D female conductor) Standard GPIB and Handler (25 pin D male connector optional)

General Specifications

AC Voltage Input: 120/220 Volts Frequency: 50/60Hz Power Consumption: 20 Watts Operating Temperature: 0 to 50°C at < 80% Relative Humidity Size: 4.3° H × 14.3° W × 14.5° D Weight: 18 lbs. Supplied Accessories: Manual, Line cord, Axial lead adapter Optional Accessories: GPIB and Handler interface, Kelvin clius, SMD tweezers

High Accuracy, Wide Range LCR Meter

Z9216



Setting settling time



The standard accessory supplied with the Z9216. This unit adapts to the Z9216 input BNC terminals and facilitates easy measurement of Axial or Radial lead components.



The Kelvin clips provide a 4-wire connection to components that have large or odd shaped leads. This removes any error caused by voltage drops in the leads.



The SMD tweezers are used to measure small surface mount or odd shaped components.

www.valuetronics.com