LCR Meter

TEGAM has introduced their Model 2600 Series Digital LCR Meters that measure inductance, capacitance, resistance, Q, and dissipation factor. A broad range of features, high speed, and basic accuracy of 0.05% make these LCR meters ideal for the test bench or for automated component testing and sorting on the production line.

The 2600 Series includes the standard Model 2600 Digital LCR Meter with RS-232 interface, and the Model 2610 which adds built-in GPIB and component handlers interfaces. Both models share such features as dual digital displays, automatic mode and range selection, measurement averaging, triggering, binning, and deviation calculations. The 2600 Series also includes a variety of standard and optional input fixtures to accept a wide range of lead configurations typical of resistive and reactive components.

A digital display with auxiliary indicators provides complete measurement information quickly and clearly. The display is a dual 5-character alpha-numeric design which provides a primary readout of measured L, C, or R parameter, and a secondary readout of related information such as Q, dissipation factor, resistance, etc. A series of front panel LEDs provide additional information about measurement setting, measurement units, and the status of the communication interfaces.

The Model 2600 Series can be controlled via a front panel pushbutton interface. The Model 2610 can also be programmed using GPIB commands for use in automated test systems. Measurement modes include resistance plus quality factor, inductance plus quality factor, capacitance plus quality factor, and capacitance plus resistance.

In automatic mode, the instrument determines the most appropriate measurement mode based on the component connected to the input leads. Ranging can also be set to operate automatically or manually. Test frequencies include 100 Hz, 120 Hz, 1 kHz, 10 kHz, and 100 kHz, accurate to 0.01%. Convenient preset drive voltages of 0.1 Vdc, 0.25 Vdc, or 1.0 Vdc may be applied to the device under test, or the voltage can be set continuously from 0.1 V to 1.0 Vdc by means of a vernier adjustment. Capacitance measurements rely on an internal 2.0 Vdc source or a user-supplied external voltage up to 40 Vdc.

Other features include nine memories for storing instrument configurations, measurement rates of up to 20 measurements per second, an averaging feature that calculates the mean of 2 to 20 readings, built in calibration procedures, and open and short circuit compensation. The device measures 4.25 H &#215 14.25 W &#215 14.5 and weighs 12.75 pounds.

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