

# VASAVI

# DIGITAL LCR Meter

## WINDING COMPONENT METER

### Brief Introduction

TH100 LCR meter is newly-developed component measurement instrument providing high performance . It is perfect combination of general LCR meter and high-performance LCR meter with high-accuracy. The meter provides measurement speed up to 20times/second, 10 measurement frequencies from 50Hz to 100kHz, 3 common typical test levels, 5-digit resolution, two inner-source resistance selections and strong measurement functions. So it's suitable for measurement of quality control on production line, incoming inspection, component design and evaluation.



### Measurement function

**Basic accuracy:** 0.1%

**Equivalents circuit:** Series, parallel

**Mathematical function:** Absolute value, % deviation

**Ranging mode:** Auto, Hold, Manual selection

**Trigger mode:** Internal, Manual, External, BUS

**Measurement speed:** Fast: 20, Med: 8, Slow: 2 (times/second) ( $\geq 1$ kHz)

**Average times:** 1 - 99

**Calibration function:** Open/Short frequency point, full frequency correction

**Measurement terminal:** 4-terminal

**Display mode:** Direct

**Display:** 5-digit resolution, special LCD display with backlight

### Measurement signal

**Signal frequency:** 10 points: 50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz, 100kHz

**Output impedance:** 30 Ohms, 100 Ohms

**Test level:** 0.1Vrms, 0.3Vrms, 1Vrms

**DC bias source:** Fixed  $\pm 2$ VDC, 0~ $\pm 5$ VDC adjustable  
0~ $\pm 50$ mA DC adjustable

### Measurement display range

|Z|, R, X 0.0001Micro - 99.999MOhms

C 0.001pF - 99999 $\mu$ F

L 0.001 $\mu$ H - 99.999kH

D 0.0001 - 9.9999

Q 0.0001 - 99999

Angle (DEG) -179.99 $^{\circ}$  - 179.99 $^{\circ}$

Angle (RAD) -3.1416 - 3.1416

Tan-Delta% -99.999% - 99.999%

### General Specifications

Operating temperature & humidity 0 $^{\circ}$ C - 50 $^{\circ}$ C,  $\leq 90\%$ RH

Power supply :198V - 242V, 47.5Hz - 63Hz

Power consumption:d" 30VA

Dimensions (W×H×D) 270mm×130mm×34mm

Weight Approx. 3.8 kg

### Features

- Special LCD display
- 10 typical measurement frequencies from 50Hz to 100kHz,
- Built-in  $\pm 2$ VDC bias voltage source, extendable to -5VDC~+5VDC bias voltage or max. bias current of 50mA
- 2 selectable source impedance: 30W/100W, easy to be compatible with other LCR meters
- Measurement speed up to 20times/second
- Built-in 5-bin comparator
- Key lock function
- Automatic LCZ function
- 10 sets of measurement parameters saved
- Automatically recalling saved measurement parameters
- HANDLER and RS232C interfaces

### Comparator and interface

**Comparator:** 5 bins (3 PASS bins, 1 FAIL bin), 1 AUX bin

**Memory:** 10 sets of inner instrument settings saved and recalled

**Interface:** RS-232C, HANDLER, GPIB (option)

### High performance

With the base of our years of experience in developing LCR meter, the meter reasonably combines easy operation and strong functions, and improves performance of 100kHz LCR meter. It is ideal instrument for incoming inspection and production line use.

### Communication interfaces

Provides HANDLER, RS232C interfaces, through which the meter can communicate with computer and build automatic measurement system and test cable.

### Convenient parameter saving and loading

Can save 10 sets of measurement parameters, and automatically load saved parameters, which doesn't have the trouble of repeat setting.

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