

LCR Meter

LCR Meter (Continuous Testing Frequency) TL-3700A Series

Product description:

TL-3700A series is a new generation compact LCR meter of low cost and high performance. Instead of traditional mechanical power switch, it adopts software control power switch. The basic accuracy of 0.05% and good test stability can compare favourably with those high-end models. Being equipped with 4.3 inch TFT LCD Display and brand new interface system, it's possess elegant appearance and easy operation. Also, being provided with various interfaces and good compatibility with SCPI commands, This models are convenient for constituting all kinds of test system and satisfy various kinds of demands for inspection, production and scientific research.



Features

- Basic accuracy: 0.05%
- DC bias $\pm 5V/5mA$.
- Signal source $0 \sim 2V/0 \sim 20mA$
- All six main and auxiliary parameters.
- The maximum speed can reach 13 ms
- Frequency up to 300KHZ and continuous frequency.
- Screen capture function, data recording and parameter saving function.
- Operating software can be automatically upgraded via USB HOST.
- 10-level comparison function, upper limit, lower limit, qualified, alarm function.
- Handler interface is used to implement online operations.
- Support SCPI and MODBUS protocols.



Specifications

Model	TL-3710A	TL-3720A	TL-3730A
Display	4.3-inch 480×272 resolution, 24-bit color TFT display		
Test Functions	Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, R, X, IZI, D, Q, θ rad, θ deg, Vm, Im, $\Delta\%$, DCR		
Accuracy	LCRZ : 0.05%, DCR : 0.1%		
Measurement Frequency	20Hz ~ 100kHz (continuous frequency)	20Hz ~ 200kHz (continuous frequency)	20Hz ~ 300kHz (continuous frequency)
Measurement Speed	Fast : 12.5ms, Medium : 83ms, Slow : 167ms		
Signal Level	Voltage : 10mVrms ~ 2Vrms, resolution : 10mV, Current : 100 μ Arms ~ 20mArms, resolution 100 μ A		
	AC		
	DC	1V	5mV ~ 2V
Source Resistance	30 Ω and 100 Ω $\pm 1\%$ selectable		
Display Range	IZI, R, X : 0.00001 Ω ~ 99.9999M Ω		
	C : 0.00001pF ~ 9.99999F		
	L : 0.00001 μ H ~ 99.9999kH		
	D : 0.00001 ~ 9.99999		
	Q : 0.00001 ~ 99999.9		
	θ rad : -179.999° ~ 179.999°		
	θ deg : -3.14159 ~ 3.14159		
	$\Delta\%$: -999.999% ~ 999.999%		
	DCR : 0.00001 Ω ~ 99.9999M Ω		
	Correction Mode	Open circuit, short circuit, load calibration	
DC Bias	-	0V ~ $\pm 5V/\pm 50mA$	
Equivalent Circuit	Serial and parallel		
Trigger Mode	INT/MAN/EXT/BUS		
List Test	10 steps setting		
Comparator	10 level sorting, BIN1 ~ BIN9, NG, AUX, level counting function, PASS, FAIL		
Deviation Test Function	Direct reading, ΔABS , $\Delta\%$		
Memory	Internal : 40 sets of instrument built-in test setting files, USB memory : setting files, CSV data files, GIF images		
Interface	USB Host, USB Device, RS-232C, Handler, RS-485/GPIB/LAN (option), support SCPI and MODBUS protocols		
Working Environment	Tempertaure : 0 ~ 40°C, Humidity : $\leq 75\%RH$		
Input Power	198 ~ 242Vac 47 ~ 63Hz, <80VA		
Dimension (WxHxD)	215x88x335 mm.		
Weight	3.6 kg.		

Ordering Informations

- TL-3710A** : 20Hz ~ 100kHz (continuous test freq.) LCR Meter
- TL-3720A** : 20Hz ~ 200kHz (continuous test freq.) LCR Meter
- TL-3730A** : 20Hz ~ 300kHz (continuous test freq.) LCR Meter

Standard Accessories :

- User Manual
- Kelvin Test box
- Short-circuit chip
- Test fixture
- Power cord
- Test report