

High Frequency LCR Meter

TL-3800A series (10Hz to 300kHz Adj.)

The newly upgraded TL-3800A series adopt true color TFT-LCD display. Displayed in large fonts, readings are more intuitive. TL-3800A with continuous frequency point of 10Hz~300kHz with a resolution of 0.001Hz. Test signal level 0.01Vrms ~ 2.00Vrms (10 mV step), add DCR measurement and internal DC bias (DC BIAS, $\pm 2.5V$). TL-3800A can test the 4 parameters of the component at the same time. Each parameter can be arbitrarily configured. The newly improved instrument realizes full 6-bit display of the main and auxiliary four parameters. Can scan 10 kinds of frequencies or level lists and can also be used for 3 groups. User frequency is corrected to improve accuracy. Built-in comparator, through the HANDLER interface combined with PLC to complete the auto sorting of components. Built-in RS232/RS485/USB interfaces and GPIB interface optional, SCPI and Modbus support.



TL-3810A



TL-3810A (Rear panel)

Features

- True color TFT-LCD display.
- Store 999 LCD screen files, trigger delay, automatic level control (ALC)
- Correction function: full-scale open circuit and short-circuit sweep frequency clear, three groups of users point frequency calibration.
- Multi-frequency test: support 10 frequency scan tests
- Multi-level test: support 10 level scan tests
- 10 sets of file management for full storage of instrument status, list scan settings and comparator settings.
- Enhanced comparator (sorting) function: Programmable P1~P9 Nine-segment sorting, main parameters HI, IN, LO display and output, NG, AUX, SREJ, IDX, EOM, etc.
- Absolute deviation (ABS) comparison mode, relative deviation and SEQ comparison.
- Switchable accessory file (AUX) sorting.
- Programmable from 1 to 200 times to provide stability.
- Built-in RS232/RS485/USB interfaces and Handler interface, GPIB interface optional.
- Protocol: SCPI and Modbus.
- 1000V super shock protection.

Specifications:

Specifications/Model	TL-3802A	TL-3810A	TL-3820A	TL-3830A
Test Functions	Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, G-B, R-X, Z- θ rad, Z- θ deg, DCR			
Monitor parameters	Z, D, Q, θ r, θ d, R, X, G, B, Y, Vac, Iac, Δ , Δ %			
Accuracy	0.05% \pm 5dgt			
Frequency (continuous)	10Hz ~ 20kHz	50Hz ~ 100kHz	10Hz ~ 200kHz	10Hz ~ 300kHz
Display Range	L : 0.00001nH ~ 9999.99H	B,G : 0.01nS ~ 999.999S	θ (deg) : -179.999° ~ 179.999°	DCR : 0.00001 Ω ~ 99.9999M Ω
Source Resistance	R, X, Z : 0.00001 Ω ~ 99.9999M Ω	D : 0.00001 ~ 9.99999	θ (rad) : -3.14159 ~ 3.14159	Δ % : -999.999% ~ 999.999%
Display Reader	6 dgt principle parameter : 999999 Sub parameter : 999999 Monitor parameter : 999999			
Equivalent Circuit	Serial and Parallel			
Signal level	10.00mV ~ 2.00V AC (ALC), 100 μ A ~ 20.00mA AC (ALC)			
DC Bias	-2.5V ~ +2.5V (0.5%+0.005V)			
Average	1 ~ 256			
Trigger Mode	INT / HOLD / MAN / BUS			
Trigger Delay	0.01mS ~ 60s			
Comparator	OK :10-BINS NG: 1-BIN, AUX: 1-BIN			
List Test	10 Setps (Frequency / Voltage / Current)			
Comparator Mode	SEQ/ABS/PER			
Adjustment	OPEN/SHORT Zeroing (ALL, SPOT)			
File	Built-in 10 files and USB Disk 10 files			
Data Logger	999 Log Files (.csv)			
Beep Feature	OFF/PASS/FAIL			
Interface	RS-232 / RS-485 / USB / HANDLER / GPIB (option)			
Power supply	100 ~ 240VAC, 50 60Hz, 20W Max			
Dimension (WxHxD)	264 (W) x 107 (H) x 350 (L)			
Weight	3 kg.			