

Micro Signal Type Tester

II. TH1953/TH1963 Digit Multimeter

Features

- 4.3-inch LCD color display, Chinese and English menu
- 6 1/2 bit 1199999 digits reading (TH1963/TH1963A)
- 5 1/2 digit 119999 digits reading (TH1953)
- Test speed up to 1000 / s
- Small size, front and rear input terminal, easy to shelve (TH1963 only)
- Histogram, bar graph, trend chart display
- AC low frequency signal can be tested down to 3Hz
- Capacitance test function
- Up to 5V diode test voltage
- Stores data up to 10,000
- Fast Chinese and English help

Application

- Production line workbench
- Maintenance workbench
- Teaching laboratory
- Automated test equipment

Specifications

Model	TH1963		TH1963A			TH1953	
Display	4.3-inch LCD color display						
Display digits	1199999 digits reading					119999 digits reading	
Measurement parameters	DC voltage, AC voltage, DC current, AC current, DC resistance, capacitance, frequency, breakover, diode, temperature						
Display mode	Direct reading, histogram, bar graph, trend chart						
Measurement speed	Up to 1000 times / s						
Math function	Reset function, Min / Max / Average / Standard deviation, dB, dBm						
Common features	Range	Trigger mode	Reading-hold	Limit measurement			
	Auto / Manual	LOCAL: AUTO / SINGLE / EXT REMOTE: IMMEDIATE / BUS / EXT	Yes	HI, Lo and IN (PASS), with sound beep			
Technical Index	Uncertainty: $\pm$ (% of reading +% of range), $T_{CAL}=25^{\circ}C$						
Parameters	Range / Test Range		Frequency	Highest annual accuracy $T_{CAL} \pm 5^{\circ}C$			Highest temperature coefficient/ $^{\circ}C$
				TH1963	TH1963A	TH1953	
DC voltage	100.0000 mV - 1000.000V (TH1963/A) 100.000 mV - 1000.00V (TH1953)			0.0035 + 0.0005	0.0075 + 0.0005	0.010+ 0.004	0.0005 + 0.0001
True RMS AC voltage	100.000mV - 750.000V		3 - 5Hz	1.00 + 0.03	1.00 + 0.03	1.00 + 0.03	0.100 + 0.003
			5 - 10Hz	0.35 + 0.03	0.38 + 0.03	0.38 + 0.03	0.035 + 0.003
			10Hz - 20kHz	0.06 + 0.03	0.09 + 0.03	0.09 + 0.03	0.005 + 0.003
			20 - 50kHz	0.12 + 0.05	0.15 + 0.05	0.15 + 0.05	0.011 + 0.005
			50 - 100kHz	0.60 + 0.08	0.63 + 0.08	0.63+ 0.08	0.060 + 0.008
			100 - 300kHz	4.00 + 0.50	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
DC Resistance	10 Ω -100M Ω ,Test current:10mA - 500nA			0.010 + 0.001	0.014 + 0.001	0.030 + 0.004	0.0006 + 0.0001
DC current	100 μ A - 10mA			0.050 + 0.006	0.050 + 0.005	0.050 + 0.008	0.0020 + 0.0005
	100mA			0.050 + 0.004	0.050 + 0.004	0.050+0.004	0.0020 + 0.0005
	1A			0.100 + 0.004	0.100 + 0.004	0.100 + 0.004	0.0050 + 0.0010
	3A			0.200 + 0.020	0.200 + 0.020	0.200 + 0.020	0.0050 + 0.0020
	10A			0.120 + 0.010	0.120 + 0.010	0.250 + 0.004	0.0050 + 0.0010
AC current	100 μ A - 100mA		3kHz - 5kHz	1.00 + 0.04	0.10 + 0.04	0.10 + 0.04	0.100 + 0.006
			5kHz - 10kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.030 + 0.006
	1A		3kHz - 5kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5kHz - 10kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.030 + 0.006
	3A		3Hz - 5kHz	0.23 + 0.04	0.23 + 0.04	0.23 + 0.04	0.100 + 0.006
			5kHz - 10kHz	0.23 + 0.04	0.23 + 0.04	0.23 + 0.04	0.030 + 0.006
	10A		3Hz - 5kHz	0.15 + 0.04	0.15 + 0.04	0.15 + 0.04	0.100 + 0.006
			5kHz - 10kHz	0.15 + 0.04	0.15 + 0.04	0.15 + 0.04	0.030 + 0.006
Frequency	3Hz - 10Hz			0.100	0.100	0.100	0.0002
	10Hz - 100Hz			0.030	0.030	0.030	0.0002
	100Hz - 1kHz			0.010	0.012	0.012	0.0002
	100Hz - 300kHz			0.010	0.012	0.012	0.0002
	Square wave			0.010	0.012	0.012	0.0002
Diode	5V,Test current:1mA			0.010 + 0.030		0.1 + 0.02	0.0010 + 0.0020
Breakover	1k Ω ,Test current:1mA			0.010 + 0.030		0.1 + 0.02	0.0010 + 0.0020
Capacitance	1.0000nF			1.0 + 0.5			0.02
	10.000nF - 1.0000mF			0.5 + 0.1			0.02
	10.000mF			1.0 + 0.5			0.02
Temperature	PT100 (DIN/ IEC 751)			$\pm 0.05^{\circ}C$			
	5 k Ω Thermistor			$\pm 0.10^{\circ}C$			

Standard Accessories

3 cord power line
TH26017 USB Cable
TH26036 1 pair of test lead (red and black)



RS232	LAN	USB HOST	USB DEVICE	GPIB OR HANDLER
standard	standard	standard	standard	option

TH1963

Rack mount (mm): 215(W) x 88(H) x 300(D)
Dimension (mm): 235(W) x 105(H) x 320(D)
Net weight: 2.7 kg