Micro Signal Type Tester

II. TH1953/TH1963/TH1963A Digit Multimeter

Features

- 4.3-inch LCD color display, Chinese and English menu
- 6 1/2 digits 1199999 readings(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

Application

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

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

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: ± (% of reading +% of range), T_{CAL}=25°C					

Parameters	Range / Test Range	Frequency	Highest annual accuracy T_{CAL} ± 5°C			Highest temperature coefficient/°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	10Ω-100MΩ,Test current:10mA - 500nA		0.010 + 0.001	0.014 + 0.001	0.030 + 0.004	0.0006 + 0.0001
DC current	100μA - 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	100μA - 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	1kΩ,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)		Probe accuracy ± 0.05°C			
	5 kΩ Thermistor		Probe accuracy ± 0.10°C			

General technical parameters		
Operating temperature, humidity		0℃-40℃，≤90%RH
Power Requirements	Voltage	99V-121V,198-V242V AC
	Frequency	47Hz-63Hz
Power consumption		Maximum 80VA