Digit Multimeter

H. TH1953/TH1963 Digit Multimeter

Features

- 4.3-inch LCD color display, Chinese and English menu
- 6 1/2 bit 1199999 digits reading (TH1963)
- 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

NEW

CE

TH1963

| Standard | RS232 ☑ | USB HOST☑ | USB DEVICE ☑ | LAN ☑ |

| option | GPIB OR HANDLER ☐ |

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		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 $T_{CAL} \pm 5$°C		Highest temperature coefficient/°C
			TH1963	TH1953	
DC voltage	100.0000 mV - 1000.000V（TH1963） 100.000 mV - 1000.00V（TH1953）		0.0035 +0.0005	0.010+ 0.005	0.0005 + 0.0001
True RMS AC voltage	100.000mV - 750.000V	3 - 5Hz	1.00 + 0.03	1.00 + 0.03	0.100 + 0.003
		5 - 10Hz	0.35 + 0.03	0.38 + 0.03	0.035 + 0.003
		10Hz - 20kHz	0.06 + 0.03	0.10 + 0.03	0.005 + 0.003
		20 - 50kHz	0.12 + 0.05	0.15 + 0.05	0.011 + 0.005
		50 - 100kHz	0.60 + 0.08	0.63+ 0.08	0.060 + 0.008
		100 - 300kHz	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
DC Resistance	10Ω-100MΩ,Test current:10mA - 500nA		0.010 + 0.001	0.030 + 0.004	0.0006 + 0.0001
DC current	100uA - 100mA		0.050 + 0.005	0.050 + 0.008	0.0020 + 0.0005
	1A		0.100 + 0.010	0.100 + 0.010	0.0050 + 0.0010
	3A		0.200 + 0.020	0.200 + 0.020	0.0050 + 0.0020
	10A		0.120 + 0.010	0.200 + 0.010	0.0050 + 0.0010
AC current	100µA - 1A	3kHz - 5kHz	0.10 + 0.04	0.20 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.10 + 0.04	0.20 + 0.04	0.030 + 0.006
	3A	3Hz - 5kHz	0.23 + 0.04	0.25 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.23 + 0.04	0.25 + 0.04	0.030 + 0.006
	10A	3Hz - 5kHz	0.15 + 0.04	0.3 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.15 + 0.04	0.3 + 0.04	0.030 + 0.006
Frequency	3Hz - 10Hz		0.100		0.0002
	10Hz - 100Hz		0.030		0.0002
	100Hz - 1MHz		0.010		0.0002
	Square wave		0.010		0.0002
Diode	5V,Test current:1mA		0.010 + 0.030	0.020 + 0.030	0.0010 + 0.0020
Breakover	1kΩ,Test current:1mA		0.010 + 0.030	0.030 + 0.030	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)		± 0.05°C		
	5 kΩ Thermistor		± 0.10°C		