

# Digit Multimeter

## H. TH1963A Digit Multimeter

### Features

- 4.3-inch LCD color display, Chinese and English menu
- 6 1/2 bit 1199999 digits reading (TH1963A)
- Test speed up to 1000 / s
- Small size, easy to shelve
- 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



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	TH1963A			
Display	4.3-inch LCD color display			
Display digits	1199999 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/ $^{\circ}C$
DC voltage	100.0000 mV - 1000.000V		0.0075 + 0.0005	0.0005 + 0.0001
True RMS AC voltage	100.000mV - 750.000V	3 - 5Hz	1.00 + 0.03	0.100 + 0.003
		5 - 10Hz	0.38 + 0.03	0.035 + 0.003
		10Hz - 20kHz	0.09 + 0.03	0.005 + 0.003
		20 - 50kHz	0.15 + 0.05	0.011 + 0.005
		50 - 100kHz	0.63 + 0.08	0.060 + 0.008
		100 - 300kHz	4.00 + 0.50	0.200 + 0.020
DC Resistance	10 $\Omega$ -100M $\Omega$ , Test current: 10mA - 500nA		0.014 + 0.001	0.0006 + 0.0001
DC current	100 $\mu$ A - 10mA		0.050 + 0.005	0.0020 + 0.0005
	100mA		0.050 + 0.004	0.0020 + 0.0005
	1A		0.100 + 0.004	0.0050 + 0.0010
	3A		0.200 + 0.020	0.0050 + 0.0020
	10A		0.120 + 0.010	0.0050 + 0.0010
AC current	100 $\mu$ A - 1A	3kHz - 5kHz	0.10 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.10 + 0.04	0.030 + 0.006
	3A	3Hz - 5kHz	0.23 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.23 + 0.04	0.030 + 0.006
	10A	3Hz - 5kHz	0.15 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.15 + 0.04	0.030 + 0.006
Frequency	3Hz - 10Hz		0.100	0.0002
	10Hz - 100Hz		0.030	0.0002
	100Hz - 1kHz		0.012	0.0002
	100Hz - 300kHz		0.012	0.0002
	Square wave		0.012	0.0002
Diode	5V, Test current: 1mA		0.010 + 0.030	0.0010 + 0.0020
Breakover	1k $\Omega$ , Test current: 1mA		0.010 + 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)		$\pm$ 0.05 $^{\circ}C$	
	5 k $\Omega$ Thermistor		$\pm$ 0.10 $^{\circ}C$	