

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
- 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 | | 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 | TH1953 | |
| DC voltage | 100.0000 mV - 1000.000V | | 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 | 10 Ω -100M Ω , Test current: 10mA - 500nA | | 0.010 + 0.001 | 0.030 + 0.004 | 0.0006 + 0.0001 |
| DC current | 100 μ A - 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 | 100 μ A - 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 - 300kHz | | 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 | 1k Ω , 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) | | \pm 0.05 $^{\circ}C$ | | |
| | 5 k Ω Thermistor | | \pm 0.10 $^{\circ}C$ | | |



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