

# Micro Signal Type Tester

## II. TH1941/TH1942 Digit Multimeter

### Features

- 21,000/51,000-count display
- Large-screen dual-display VFD with high brightness
- True RMS AC voltage and current measurements, bandwidth up to 100kHz
- Measurement functions, including DCV/ACV, DCI/ACI,  $\Omega$ , frequency/period, diode, Continuity, dBm, dB, etc.
- Parameters, such as AC+DC, AC+Hz, Readout+dB, Readout+dBm, displayed synchronously
- Measurement speed up to 25 meas/sec
- DCV accuracy up to 0.02%, resolution up to 10 $\mu$ V
- Measured value displayed in the form of percentage
- Relative mode (REL) to eliminate residual reading
- Calibration without opening the case
- Limit function (HI/IN/LO) for fast sorting
- Equipped RS232C communication interface providing convenient system communication

### Brief Introduction

■ TH1941 4 1/2-digit true-RMS digital multimeter and TH1942 50,000-count digital multimeter are voltage, current, resistance tester with multi functions and low cost. The instrument can stably perform measurement at high speed as several times as competitive instruments in this class. It provides excellent performance, such as maximum reading of 21,000/51,000 counts, maximum DC voltage accuracy of 0.02%, and low cost to give you a best choice.

Having VFD dual-display with high brightness, TH1941/TH1942 can synchronously display measurement parameters, such as AC/DC voltage or current, AC voltage/current and frequency to improve measurement efficiency and display results clearly.

The instrument is equipped with SMD component inside to reduce density and physical size.

The instrument comes standard with RS232C communication interface and common communication software is optional to meet the need of communication with computer, data analysis and statistics, and building up automatic test system. The instrument accepts SCPI command to ensure compatibility of communication software.

### Ordering Information

TH1941 4 1/2 Digit Multimeter

TH1942 50000 count Digit Multimeter

### Standard Accessories

TH26036 1 pair of test lead (red and black)  
3 cord power line (According to different regions)

### Options

TH26034 RS232C interface connection cable  
TH12025 RS232C communication software  
TH12024 Accuracy calibration software



RS232

standard

USB DEVICE

standard

GPIO

option

### TH1941/TH1942

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

### Measurement Functions

|                        |   |
|------------------------|---|
| Measurement Parameters | DC/AC Voltage, DC/AC Current, Resistance, Frequency, Period, Continuity, Diode  |
| Math function          | %, dB, dBm, REL   |
| Range                  | Auto, Manual  |
| Display                | VFD, dual display   |
| Reading mode           | Single display: all measurement parameters<br>Dual display: ACV+DCV, ACI+DCI, ACV+Hz, ACI+Hz, Readout+dB/dBm, Readout+Max/Min |
| Trigger mode           | INT/MAN/BUS   |
| Reading hold           | TO find out the best stable reading for each data block of the given reading number according to given accuracy               |
| Comparator             | To judge HI, IN, LO and display, with ALARM at HI/LO (selectable)   |
| Interface              | RS232C (only TH1942), supporting SCPI command   |

### General Specifications

|                                |           |                         |
|--------------------------------|-----------|-------------------------|
| Working temperature & humidity |           | 0°C-40°C, ≤90%RH        |
| Power supply                   | Voltage   | 198V-242VAC, 99V-121VAC |
|                                | Frequency | 47.5Hz-63Hz             |
| Power consumption              |           | ≤ 10 VA                 |
| Dimensions (W×H×D)             |           | 277mm×115mm×340mm       |
| Weight                         |           | Approx. 2.2 kg          |