

## TH2617/TH2617A Capacitance Meter

### Features

- 6 selectable typical measurement frequencies, up to 100kHz
- Ideal instrument to perform high-accuracy capacitance measurement
- Measurement speed up to 20times/second
- Direct, absolute deviation, relative deviation
- Measurement state setup and parameter storage function
- Unique double-frequency measurement function (TH2617A)
- Sorting alarm volume control and alarm state selection
- Set parameter protection function
- 4-bin sorting and HANDLER interface



TH2617



TH2617A

### Brief Introduction

■ TH2617/TH2617A capacitance meter is a capacitance parameter measurement instrument with high accuracy, wide measurement range. It provides 6 typical measurement frequencies: 100Hz, 120Hz, 1kHz, 10kHz, 40kHz, 100kHz, and 3 measurement signal levels: 0.1V, 0.3V, 1.0V. With the unique double-frequency measurement function, TH2617A can measure at two randomly-set frequencies, output and display results, and sort. The meter can be used for high-speed measurement on production line and high-accuracy measurement in lab. HANDLER and RS232C interfaces help build an automatic component sorting system and communicate with computer. And measurement conditions can be sent to printer through printer interface.

### General Specifications

Operating temperature & humidity		0°C—40°C, ≤90%RH
Power supply	Voltage	198V—242V
	Frequency	47.5Hz—63Hz
Power consumption		≤ 20 VA
Dimensions (W×H×D)		350mm×110mm×340mm
Weight		Approx. 3.8kg

### Specifications

	TH2617	TH2617A
<b>Measurement function</b>		
Measurement parameters	Cs-D, Cp-D, ESR-D, EPR-D	Single-frequency: C-D, R-Q Double-frequency: C-D, R-D, C-C, R-R
Basic accuracy	0.05%	
Equivalent circuit	Series connection, Parallel connection	
Mathematical function	Absolute value deviation, Δ%	
Range mode	Auto, Hold	
Trigger mode	Internal, Manual, External	
Measurement speed	Fast: 20, Medium: 5.1, Slow: 1.5 (times/second)	
Average times	1 - 99	
Calibration function	Open/Short sweep correction	
Measurement terminal	5-terminal	
Display mode	Direct, Δ, Δ%, V/I (V/I monitor)	
Display	Double 5-digit LED display	
<b>Measurement signal</b>		
Signal frequency	100Hz, 120Hz, 1kHz, 10kHz, 40kHz, 100kHz	
Output impedance	Dependent on range	
Test level	0.1Vrms, 0.3Vrms, 1Vrms	
<b>Measurement display range</b>		
R	0.0001Ω - 99.999MΩ	
C	0.0001pF - 99999μ F	
D	0.0001 - 99999	
Δ%	0.00% - 9999%	
<b>Comparator and interface</b>		
Comparator	4-bin sorting, alarm volume control, alarm state selection	
Interface	RS232C, Handler, Printer	

### Ordering Information

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### Instrument Accessories

- TH26005 4-terminal test fixture
- TH26011 4-terminal Kelvin test cable
- TH26010 gilded shorting plate

### Options

- TH26001 4-terminal test fixture
- TH26006 axial component test fixture (used with TH26005)
- TH26008 SMD component test fixture
- TH26009 SMD component test tweezers
- TH26029A SMD component test tweezers
- TH26004-1 4-terminal Kelvin test cable
- TH26011A 4-terminal pair Kelvin test cable
- TH12007 RS232C control software
- TH12008 RS232C control software

**Changzhou Tonghui Electronics Co., Ltd.**