

# CURRENT TRANSFORMER CHECKER DAC-CTC-7 VOLTAGE TRANSFORMER CHECKER DAC-VTC-7



(Picture: DAC-CTC-7)

An instrument transformer which rated secondary current (voltage) is very low is usually composed of electric device like electronic power meters, watt hour meters or transducers, so that the secondary current (voltage) can directly be supplied to electronic circuits in the devices. DAC-CTC-7 for CT and DAC-VTC-7 for VT are applicable to test such transformers and measures ratio errors and phase angles precisely.

### Specimen and application

Measuring ratio errors and phase angles of low current transformers (CT) or low voltage transformers (VT) in watt hour meters, smart meters, digital current meters and different transducers.

### Two Mode to measure

Two measuring modes are available.

One of them is a comparison measuring mode which compares a reference CT (VT) and a CT (VT) under test. Another one is an absolute measuring mode which measures only a CT (VT) under test. Because a suitable CT (VT) sorted from mass productions in the absolute measuring mode can be used as a reference one in the comparison measuring mode, no need to prepare any reference CT (VT) specially.

### Features

- •Wide Phase angle 0.0 to 2000 minutes.
- Fast measurement.
- •Light in weight and compact in size.
- •Simple operation and clearness display.

## CURRENT TRANSFORMER CHECKER Model DAC-CTC-7 **VOLTAGE TRANSFORMER CHECKER Model DAC-CTC-7**

### **Test Mode**

- Absolution measuring mode
  - Ratio Errors and Phase Angles between primary and secondary winding of a transformer are given.
- **Comparison Measuring Mode** 
  - Comparing a transformer under test and a reference transformer in the same ratio, ratio errors and phase angles are given.

### **Measuring Range**

DAC-CTC-7		DAC-VTC-7
(for Current Transformer)		(for Voltage Transformer)
Rated Current:		Rated Voltage:
Absolution measuring mode		Absolution measuring mode
Primary Current Range		Primary Voltage
5A range	: 1201mA – 6000mA	: 110V
1A range	: 600mA – 1200mA	: 63.5V
Secondary Current Range		Secondary Voltage Range
	: 1mA – 1200mA	: 0.1V – 10V
Comparison measuring mode		Comparison measuring mode
Secondary current range of Reference CT		Secondary voltage range of Reference VT
	: 1mA – 1200mA	: 0.1V – 10V
Secondary current range of CT under test		Secondary voltage range of VT under test
	: 1mA – 1200mA	: 0.1V – 10V
Common Specification		
Ratio Error	: 0.00% - +/-20.00%	
Phase Angle	: 0.0mim - +/-2000min	
Test Current/ Test Voltage range	: 2% - 120% of rated Current / Rated Voltage	
Test Frequency	: 50/60Hz	
Measuring Accuracy	: Ratio Error	: +/- (3%Rdg+3digits)
		(+/- (3%Rdg+5digits) at <=5% of rated current)
		· +/- (3%Rda+3digits)
	: Phase Angle	(+/- (3%Rdg+5digits) at <=5% of rated current)
Input Burden AC Input Interface	: Less than 1VA : AC100V- 240V +/-10% 50/60Hz : USB	
Judgment Function	: Output PASS/FAIL judgment (dry contact)	
Size and Weight	: W430 x D380 x H150mm	Approx. 8kg

### Measuring Diagram (DAC-CTC-7)



\*Specifications are subject to change without prior notice for improvement.



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Primary

Primary

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Secondary

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