

Double Clamp Digital Phase Volt-Ampere Meter Type KTP-DCDP-VAM



Descriptions and features :

1. Ingenious structure, low power consumption, high resolution, electronic automatic testing machine.
2. Perform as phase volt-ampere meter, clamp phase meter, digital clamp phase meter.
3. Specially designed for voltage, current and phase test, highly precision, portable hand-held, dual-channel input measuring. Easy measuring the phase between U-U, I-I, and U-I, identify the inductive circuit, capacitive circuit and the phase sequence of three phase voltage, detect the wiring group of transformer test the secondary circuit and bus differential protective system display the phase relationship among the CT group of a differential protection system, and check the wire of electric meter was correctly connected.
4. On line testing equipment.
5. When measuring
6. During testing the two input circuit loop are completely isolated so mis connection is absolutely avoided.
7. No need change measurement-range and disconnect circuit for measurement under 10mA~10A, 3V~500V.
8. High resolution
Current resolution up to 0.1mA, voltage resolution up to 0.1 volt.

PT.SURYA TOTAL PERTIWI **INDUSTRY & SUPPLIER**

Jl. Danau Sunter Blok B.1A/15 Sunter Agung-Jakarta Utara 14350

Jl. Sunter Paradise Blok F12 No. 1 Sunter Podomoro – Jakarta Utara 14350

Telp. (021) 65307382 / Fax. (021) 6516120 E-mail: ptstpj@uninet.net.id Website : www.suryatotalpertiwi.com

Product parameters :

Intrinsic Error

1. Reference Operating Conditions

- (1) Temperature, (23±5)°C
- (2) Moisture, (45~75)% RH
- (3) Wave forms of measured signal, sine wave, β=0.02
- (4) Frequency of measured signal, (50±0.2)Hz.
- (5) Position of measured current carrying conductor in the nipper jaw, Optional position
- (6) Amplitude range of measured current signal when measuring phase 100~220V, 0.5A~1.5A.
- (7) External reference frequency electromagnetic interference should be avoided.

2. Limits of Intrinsic Error

(1) AC Voltage (see table 1)

Table 1 Error of AC Voltage		
Measure range	Resolution	Limits of intrinsic error
20V	0.01V	±(0.3%RD+0.2% Range)
200V	0.1V	±(0.3%RD+0.2% Range)
500V	1V	±(0.3%RD+0.2% Range)

Input Impedance, All the measure range is 2MΩ
Voltage input impedance of phase testing >500KΩ

(2) Alternating current (see table 2)

Table 2 Error of alternating current		
Measure range	Resolution	Limits of intrinsic error
200mA	0.1mA	±(0.3%RD+0.2)
2A	1mA	
10A	10mA	

(3) Phase

U-U, U-I, I-I (see Table 3)

Table 3 Error of Power-Frequency Phase		
Range	Resolution	Limits of intrinsic error
0~360°	1°	±2°

Impedance of input voltage loop when measuring phase of U1-U2, 40KΩ

Operating Error

1. Rated Operating Conditions

- (1) Temperature, 0°C~40°C
- (2) Moisture ≤90%
- (3) Wave forms of measured signal, sine wave, β=0.05
- (4) Frequency of measured signal, (50±0.5)Hz.
- (5) Position of Measured current carrying conductor in the nipper jaw, Optional position.
- (6) Amplitude range
Phase U1-U2, 30V~500V
Phase I1-I2, 10mA~10.000A
Phase U1-I2 or I1-U2, 10V~500V, 10mA~10.00A
- (7) External reference frequency electromagnetic interference, should be avoided

2. Limits of Rated Operating Error

Under the conditions described in 1, the limits of the rated operating error will not exceed twice of the limits of intrinsic error.

Other technical features

- 1. Display, three and half
- 2. Sampling rate, 3 times per second
- 3. Power Supply, single 9V laminated cell, current of power is less than 5mA
- 4. Dimension
Meter shell, 186x86x33mm
Nipper shell, 140x40x19mm
- 5. Weight
Meter body, 280g
Measuring pliers, 2x200g
- 6. Storage Conditions
Temperature, -10°C~50°C



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