

Double Clamp Digital Phase Meter Type KTP-DCPM



Description & feature :

- 1.High precision,portable hand held,light in weight.
- 2.Dual-chanel input measuring,easy to operate.
- 3.Withstand voltage :
 - Parts between voltage input terminal and meter shell,parts between the iron core of the clamp-current transformer and secondary windings can stand for 1.000 volt,50 Hz.
 - Parts between the two voltage input terminals can stand Sinusoidal AC voltage 500 volt 50 Hz for 1 minute when testing.
- 4.Insulation resistance.
 - Between meter circuit and meter shell,between the two voltage input terminals $\geq 10M\Omega$.

Technical Specification :

Intrinsic Error

1.Reference Operating Conditions

- (1) Temperature(23 \pm 5) $^{\circ}$ C
- (2) Moisture(45~75)% RH
- (3) Wave forms of measured signal,sine wave, $\beta=0.02$
- (4) Frequency of measured signal (50 \pm 0.2)Hz
- (5) Position of measured current carrying conductor in the nipper jaw, optional position
- (6) Amplitude range of measured 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)

Measure Range	Resolution	Limits of Intrinsic error
20V	0.01V	$\pm(1.2\%RD+2)$
200V	0.1V	$\pm(1.0\%RD+2)$
500V	1V	$\pm(1.2\%RD+2)$

Input impedance,all the measure range is $2M\Omega$

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

(2) Alternating current(see Table 2)

Measure range	Resolution	Limits or intrinsic error
200mA	0.1mA	±(1.0%RD+2)
2A	1mA	
10A	10mA	

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

Range	Resolution	Limits or intrinsic error
0~360°	1°	±3°

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

Operating error

1.Rated Operating Conditions

- (1)Temperature (0~40)°C
- (2)Moisture (20~80)% RH
- (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 of measured signal when measuring phase
Phase U1-U2,30V~500V
Phase II-I2,10mA~10.000A
Phase U1-I2,10mA~10.000A
- (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 : 192x95x55mm
Nipper shell : 140x42x20mm
Nipper jaw : Φ7x9mm
- 5.Weight
Meter body : 280g
Measuring pliers : 2x200g
- 6.Storage conditions
Temperature : -10°C~50°C



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