



\*In addition to high precision phase angle meter without reading error, frequency measurement function was additionally installed.

\*Since automatic range for INPUT is applied both of voltage and current, upgrade was realized.

## Features

- Phase angle measurement with  $0.1^\circ$  resolution is realized, because revolutionary principle which is not affected by alteration and/or fluctuation of INPUT signal frequency was newly applied.
- Wide range of phase measurement is available for both of voltage and current circuits, and phase displacement between voltage and voltage, voltage and current and/or current and current is measured. Automatic range selection for voltage input and automatic range selection or manual selection by altering terminals for current input.
- High luminance and large size LED display indication is adopted, so not only eye friendly but also tireless. And exceptional high accuracy, stability and responsibility are realized.
- This model is applicable as a standard device for an instrument calibration test.

## Specification

- Power supply: (One voltage is set at factory)  
1-phase 100, 110, 220, 230 or 240V  
(region dependent 50/60Hz)
- Dielectric strength:  
Between the REF and INPUT terminals,  
Between the REF/INPUT terminal and power supply/earth,  
Between the power supply and earth  
..... 2000VAC for one minute
- Range Selection :  
Voltage : Automatic  
Current : Automatic/Manual
- Power Consumption: 30VA approx.
- Dimension : about 340(W) $\times$ 235(D) $\times$ 190(H)mm
- Weight : 6.3kgs approx.

### Measuring Function

Item	Phase Angle	Frequency
Measuring Range	0.0~359.9° (Lag or lead of INPUT phase angle in relation to REF.)	40.00~70.00Hz
Resolution	0.1°	0.01Hz
Frequency Characteristic	$\pm 0.2^\circ$ (40~70Hz)	
Display latch	0.1~0.2sec	0.25sec
Tolerance	$\pm 0.2^\circ$ 1~5mA : $\pm 0.4^\circ$ ( $\pm 0.6^\circ$ *) 0.1~0.3V : $\pm 1.0^\circ$ ( $\pm 1.8^\circ$ *)	$\pm 0.02$ Hz
Temperature Characteristic	$\pm 0.2^\circ$ C -10°C~50°C	$\pm 0.02$ Hz

\* When both of inputs at REF. and INPUT are the same range

### Input range and input impedance

Nominal Range	Measuring Range	Input terminal	Input Selection	Input Impedance
AUTO. 450V	6.5V ~ 450V	VOLTAGE	Automatic	1M $\Omega$
6V	0.1V ~ 8V	VOLTAGE	Automatic	18K $\Omega$
MANU. 15A	0.3A ~ 15A	MANUAL 0.3A ~ 15A	Manual	0.007 $\Omega$
1A	20mA ~ 1A	MANUAL 20mA ~ 1A	Manual	0.1 $\Omega$
50mA	1mA ~ 50mA	MANUAL 1mA ~ 50mA	Manual	2 $\Omega$
AUTO. 15A	0.7A ~ 15A	AUTO	Automatic	0.007 $\Omega$
1A	50mA ~ 1.1A	AUTO	Automatic	0.1 $\Omega$
50mA	1mA ~ 60mA	AUTO	Automatic	2 $\Omega$

Specifications may be changed without preliminary notice.