

PAM360E Phase Angle Meter



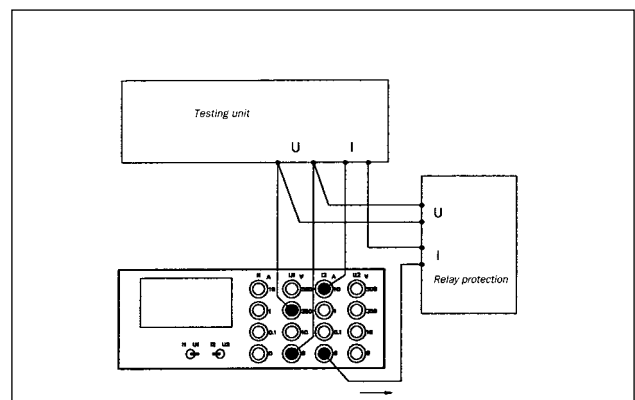
- **Designed for power system applications**
- **Current and voltage inputs**
- **Compact and lightweight**
- **Easy to use**

Description

The PAM360E Digital Phase Angle Meter is specifically designed for measurements on electrical power systems. It is capable of displaying the phase angle relationship between two power signals, either two currents or two voltages, or any combination. Current signals up to 10 amps and voltage signals up to 500 volts can be applied directly to the instrument. The current input range can be extended with the use of external current transformers.

Application

PAM360E is commonly used for phasing out circuits, checking poly-phase metering installations, testing and calibrating protective relays, checking differential relay schemes, and verifying the polarity of current and potential transformers.



Application example of the PAM360E

Features and benefits

- Direct digital reading down to tenths of a degree (0.1°) – does not require calculation or interpretation.
- Designed for use in substation or industrial environments – transport case provided for rugged protection.
- Switchable inputs between current and voltage – allows phase angle of any combination of two power signals to be measured giving broad application capability.

Specifications PAM360E

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

<i>Application field</i>	The instrument is intended for use in high-voltage substations and industrial environments.
<i>Temperature</i>	
<i>Operating</i>	0°C to +50°C (32°F to +122°F)
<i>Storage & transport</i>	-40°C to +70°C (-40°F to +158°F)
<i>Humidity</i>	5% – 95% RH, non-condensing

CE-marking

<i>EMC</i>	2004/108/EC
<i>LVD</i>	2006/95/EC

General

<i>Mains voltage</i>	115/230 (135/250) V AC, 50/60 Hz
<i>Power consumption (max)</i>	3 W
<i>Protection</i>	Thermal cut-outs, +80°C (+176°F) Short-circuit protectors at DC outputs
<i>Dimensions</i>	
<i>Instrument</i>	205 x 98 x 225 mm (except handle) (8.1" x 3.8" x 8.8")
<i>Transport case</i>	320 x 150 x 465 mm (12.6" x 5.9" x 18.3")
<i>Weight</i>	2.3 kg (5.1 lbs) 4.6 kg (10.1 lbs) with accessories and transport case
<i>Test lead set, with 4 mm stackable safety plugs</i>	4 x 2 m (6.6 ft), 2.5 mm ²
<i>Display</i>	LCD

Measurement section

<i>Range</i>	0 – 359.9°
<i>Type of phase angle measurement</i>	Current-current, voltage-voltage and current-voltage
<i>Waveform</i>	Sinusoidal
<i>Frequency range</i>	15-75 Hz
<i>Resolution</i>	0.1°
<i>Inaccuracy (sinusoidal voltage)</i>	±0.5° (if 20% or more of range is used) ±1° (if less than 20% of range is used)
<i>Current Input Range</i>	0.002 - 10 A. Range can be increased by means of a clamp-on current transformer
<i>Voltage Input Range</i>	0.2 - 500 V

Ordering information

Item	Art. No.
PAM360E Incl. Test lead GA-00082 and transport case 50-00100	BP-29092