PAM410

Phase Angle Meter



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

Description

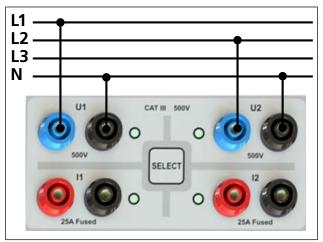
The PAM410 is specifically designed for measurements on electrical power systems. It is capable of displaying the phase angle relationship between two power signals, which can be two currents, two voltages or any combination. Currents up to 25 A and voltages up to 500 V can be applied directly to the instrument. The current input range can be extended by using external current transformers.

Application

The PAM410 is suitable for checking polyphase metering installations, testing protective relays, make comparative test in electrical substations, and verifying the phase angle deviation on power transformers.



Example of phase angle shown on display



Application example of the PAM410

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.
- Local calibration

Specifications PAM410

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

Environment

Application field The instrument is intended for use

in high-voltage substations and industrial environments.

Temperature

-10°C to +50°C (14°F to +122°F) Operating -40°C to +70°C (-40°F to +158°F) Storage & transport Humidity 5% – 95% RH, non-condensing Altitude < 2000 m above sea level

CE-marking

2004/108/EC **EMC** LVD 2006/95/EC

General

Measurement category CAT III 500 V

CATIV 300 V

Enclosure class

100-240 V AC, 50/60 Hz Mains adapter

9 V DC Adapter output voltage Power consumption 10 W (max)

Dimensions Instrument

260 x 140 x 55 mm (except handle)

(10.2" x 5.5" x 2.2")

Transport case 390 x 300 x 140 mm

(15.4" x 11.8" x 5.5")

Weight 1.1 kg (2.4 lbs)

3.4 kg (7.5 lbs)

with accessories and transport case Black 2 x 2 m (6.6 ft), 2.5 mm²

Test lead set, with 4 mm stackable safety plugs

Red 2 x 2 m (6.6 ft), 2.5 mm² Display Alpha numerical LC display with

backlighter

Measurement section

Phase angle

Range $0 - 359.9^{\circ}(2 - 500 \text{ V and } 0.15 - 25 \text{ A})$ Type of phase angle Current-current, voltage-voltage

measurement and current-voltage

Waveform Sinusoidal Resolution 0.1°

Inaccuracy ±0.5° at >10% of voltage/current

±1° at 2-10% of voltage/current

±2° at 1−2% of voltage/current

range



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Ordering information

Item Art. No.

PAM410

Incl. Test lead set, mains adapter and transport case BP-39090