PAM410

Phase Angle Meter



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

DESCRIPTION

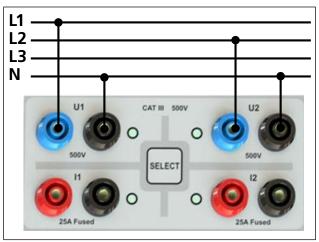
The PAM410 is specifically designed for measurements on electrical power systems. It is capable of displaying the phase angle relationship between two power signals, which can be two currents, two voltages or any combination. Currents up to 25 A and voltages up to 500 V can be applied directly to the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



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

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

General

Measurement category CAT III 500 V

CATIV 300 V

Enclosure class

Power supply Rechargeable batteries Mains adapter 100-240 V AC, 50/60 Hz

Adapter output

9 V DC

Power consumption

10 W (max)

Dimensions

voltage

260 x 140 x 55 mm (except handle) (10.2" x 5.5" x 2.2") Instrument

390 x 300 x 140 mm Transport case

(15.4" x 11.8" x 5.5")

Weight 1.2 kg (2.6 lbs)

3.5 kg (7.7 lbs)

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

Red 2 x 2 m (6.6 ft), 2.5 mm²

Test lead set, with

4 mm stackable safety

plugs

Display Alpha numerical LC display with

backlighter

Measurement section

Phase angle

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

measurement current-voltage Waveform Sinusoidal Resolution 0.1°

 $\pm 0.5^{\circ}$ at >10% of voltage/current range Inaccuracy

±1° at 2-10% of voltage/current range ±2° at 1−2% of voltage/current range

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

INCLUDED ACCESORIES



Test lead set, 4 x 2 m (6.5 ft)

ORDERING INFORMATION

Item Art. No.

Incl. Test lead set (GA-00082), mains adapter

(battery charger)and transport case

BP-39090



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