

PAM410

Phase Angle Meter

Megger[®]



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

DESCRIPTION

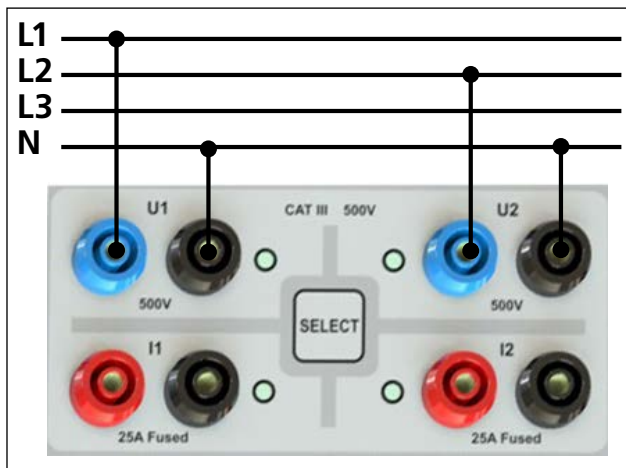
The PAM410 is specifically designed for measurements on electrical power systems. It is capable of displaying the phase angle relationship between two power signals, which can be two currents, two voltages or any combination. Currents up to 25 A and voltages up to 500 V can be applied directly to the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

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.
- Phase angle calculated from of any combination of two power signals to be measured giving broad application capability. Local calibration.
- 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.



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

Operating -10°C to +50°C (14°F to +122°F)

Storage & transport -40°C to +70°C (-40°F to +158°F)

Humidity 5% – 95% RH, non-condensing

Altitude < 2000 m above sea level

CE-marking

LVD 2014/35/EU

EMC 2014/30/EU

RoHS 2011/65/EU

General

Measurement category CAT III 500 V
CAT IV 300 V

Enclosure class IP21

Power supply Rechargeable batteries

Mains adapter 100–240 V AC, 50/60 Hz

Adapter output voltage 9 V DC

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 1.2 kg (2.6 lbs) Instrument
3.5 kg (7.7 lbs) with accessories and transport case

Test lead set, with 4 mm stackable safety plugs Black 2 x 2 m (6.6 ft), 2.5 mm²
Red 2 x 2 m (6.6 ft), 2.5 mm²

Display Alpha numerical LC display with back-lighter

Measurement section

Phase angle

Range 0 – 359.9° (2–500 V and 0.15–25 A)

Type of phase angle measurement Current-current, voltage-voltage and current-voltage

Waveform Sinusoidal

Resolution 0.1°

Inaccuracy ±0.5° at >10% of voltage/current range
±1° at 2–10% of voltage/current range
±2° at 1–2% of voltage/current range

Internal battery

Rechargeable Li-ion battery, replaceable by accredited service centre only

INCLUDED ACCESSORIES



Test lead set, 4 x 2 m (6.5 ft) GA-00082

ORDERING INFORMATION

Item	Art. No.
PAM410 Incl. Test lead set (GA-00082), mains adapter (battery charger) and transport case	BP-39090

Postal address
Megger Sweden AB
Box 724
SE-182 17 Danderyd
SWEDEN

T +46 8 510 195 00
E seinfo@megger.com

PAM410_DS_en_V05a
ZI-BP02E • Doc. BP0129EE • 2023
Subject to change without notice
Megger Sweden AB

Registered to ISO 9001 and 14001
The word 'Megger' is a registered trademark
www.megger.com

Megger ^R