

PAM420

Multi Function Meter

Megger[®]

技术咨询和询价：010-68940148



- Phase Angle Meter
- 2 channels: voltage, current and frequency meter
- Timer
- Compact and lightweight
- Local calibration
- Rechargeable batteries
- Easy to use

康高特-MEGGERPAM420多功能相角测试仪 DESCRIPTION

The PAM420 is specifically designed for measurements on electrical power systems. It is capable of displaying phase angle, voltage, current, frequency and timing.

The phase angle is calculated from the 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

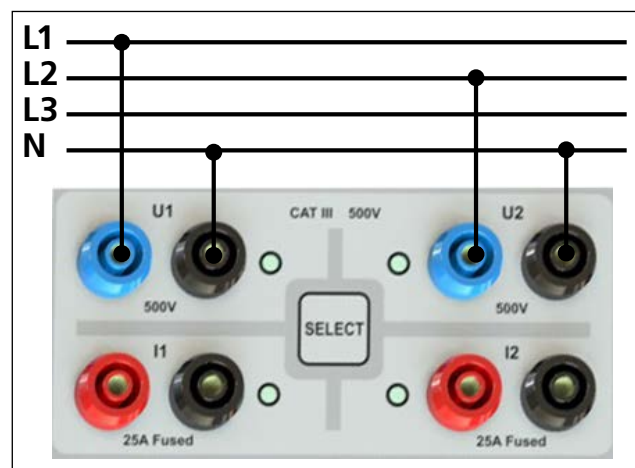
The PAM420 is suited for checking polyphase metering installations, testing protective relays, make comparative test in electrical substations, and verifying the phase angle deviation on power transformers.

ϕ	180.0	°
U1	228.1	V
F1	50.01	Hz
U2	230.2	V
F2	49.99	Hz

Example of measured values shown on display

康高特-MEGGERPAM420多功能相角测试仪 FEATURES AND BENEFITS

- Direct digital reading 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.
- Timer with high accuracy for contact or voltage trig.
- Local calibration.



Application example of the PAM420

SPECIFICATIONS PAM420

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

Output connector Ø 5.08 mm with Ø 2.54 centre pin (+)
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 backlighter

Measurement section

Current – Inputs I1 and I2

Measurement category CAT III 500 V
CAT IV 300 V

Input range 0 – 25 A AC

Inaccuracy 0.5% of reading

Resolution 0.1 A

Protection Built-in 25 A fuse

Voltage – Inputs U1 and U2

Measurement category CAT III 500 V
CAT IV 300 V

Input range 0 – 500 V AC true RMS

Inaccuracy 0.15 % of reading + 0.03% of range
(± 0.15 V)

Resolution 0.1 V

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

Frequency

Note: Frequency component in voltage component only

Range 15 – 75 Hz

Inaccuracy 0.1%

Resolution 0.01 Hz

Timer

Measurement category CAT II 250 V

Range 0-999.999 s

Resolution 1 ms

Inaccuracy ±0.02% + 2 digits of displayed value

Max input voltage 250 V AC/DC

Input debouncing filter 1 ms

Voltage mode

Parameter	Min	Max	Unit
Trig AC	9	250	V AC
Trig DC	11	250	V DC

Contact mode

Parameter	Min	Max	Unit
Closed contact detection	0	1	kΩ
Open contact detection	4	-	kΩ

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.
PAM420	
Incl. Test lead set (GA-00082), mains adapter (battery BP-charger) and transport case	BP-39093