Power Meter – Din Rail Mount

Three phase, 24vDC Power Supply

More Info

Key Features

- Din Rail mounting
- 1.77 inch TFT screen display
- Accuracy: ±0.5%
- 3 Rogowski coil options: 500 Amps, 1,000 Amps or 3,000 Amps
- Power Supply: 24 vDC
- IP20 rating
- Output: Modbus RTU
- Measure:
    - Voltage (V), amps (A) and kilowatts (kW) for each phase and total
    - power factor (PF), reactive power (kVar), apparent power (kVa)
    - kilowatt hours (kWh) and electrical system harmonics (THD)
- Relay Output

About

This single or three phase power meter is simple to install and easy to configure via the display. The power meter can be connected to your SCADA via Modbus/RTU thereby giving you a better understanding of your energy use. Monitor your mains power supply, sub loads or individual equipment.

The power meter comes with 3 Rogowski coils. These lightweight, flexible coils are an excellent solution where a traditional current clamp is too difficult to fit. The coil is shielded against the influence of external magnetic fields, has wide dynamic range and high linearity.

Applications

- Manufacturing and industrial use
- Can be installed on mains supply provided the:
    - input (measured) voltage is less than 600 vAC and
    - measured current is less than 9,999 Amps
- Sub-metering individual equipment or sub loads
- Temporary or permanent installation
- Measure single or three phase power with the same meter

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sales@caasensors.com
www.caasensors.com

Specifications

Input	
Input type	External CT (333mV only) or External Rogowski coil (500A or 1,000A or 3,000A)
Current - Channel Input Voltage Range	0-900 mVAC peak, 636 mV RMS
Current - VCT	0 – 99,999 A
Voltage - Channel Input Voltage Range	0~600 VAC Phase Voltage
Voltage - Maximum range	720 VAC Phase Voltage
Digital input	One-way dry contact input, optocoupler isolation (5kVrms)

Accuracy	
Current	±0.1% + accuracy of current sensor
Rated Current	500A 1,000A 3,000A
Rogowski coil accuracy	±0.5% (to 1% of full scale)
Voltage	±0.2% (60V to 600V AC)
Grid Frequency	±0.01% (45-65Hz)
Power Factor	±0.005
Active/Apparent Power	IEC62053-22 Level 0.5S
Reactive power	IEC62053-21 Level 1S

Accuracy can be affected by the quality of installation and on-site conditions such as high temperatures or pollution.

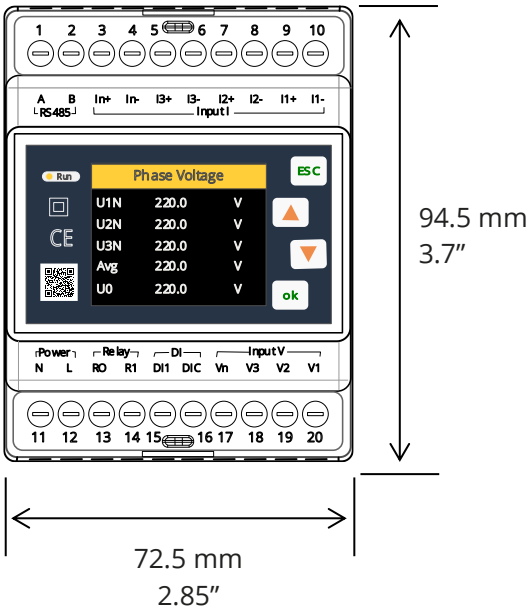
Power Supply	
Power Requirement	24 VDC, 45- 60 Hz
Max Power Consumption	3.5 VA
Electrical Connection	Screw terminals
Electromagnetic Compatibility	Meets IEC 61326-1

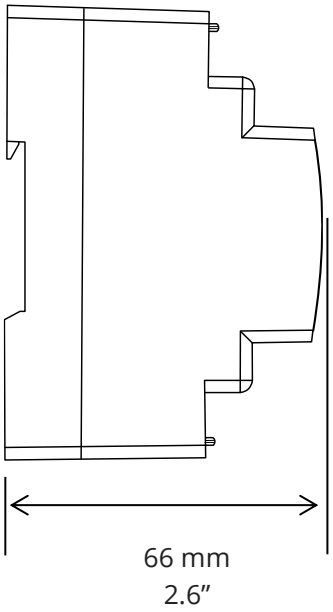
Output	
Output	Modbus RTU (RS485)
Interface type	2 wire, Half duplex
Output Signals	Over 220 channels available including: Voltage (V), Amps (A), Kilowatts (kW) (for each phase and total), power factor (PF), reactive power (kVar), apparent power (kVa), kilowatt hours (kWh) and electrical system harmonics
Alarm Relay Output	One way electromagnetic relay output. Contact capacity: 3A 30V DC, 3A 250V AC

Working Environment	
Ambient Temperature	-25°C to +60°C -13°F to +140°F
Relative Humidity	5% to 95% RH at 50℃ (non-condensing)
Altitude	3000m Max
Pollution Degree	2: Normally only nonconductive pollution occurs. Temporary conductivity caused by condensation is to be expected
Insultation	As per IEC61010-1, Doubled insulated front panel display
Overvoltage category	CAT III 1000V It is suitable for distribution systems below 277 / 480vAC

Other	
Mounting	Din Rail
IP Rating	IP20
Display	1.77 inch TFT screen display
Weight	259 grams
Installation	Permanent or Temporary
Warranty	12 months
Standard Compliance	EN 62052-11, EN61557-12, EN 62053-21, EN 62053-22, EN 62053-23, EN 50470-1, EN 50470-3, EN 61010-1, EN 61010-2, EN 61010-031

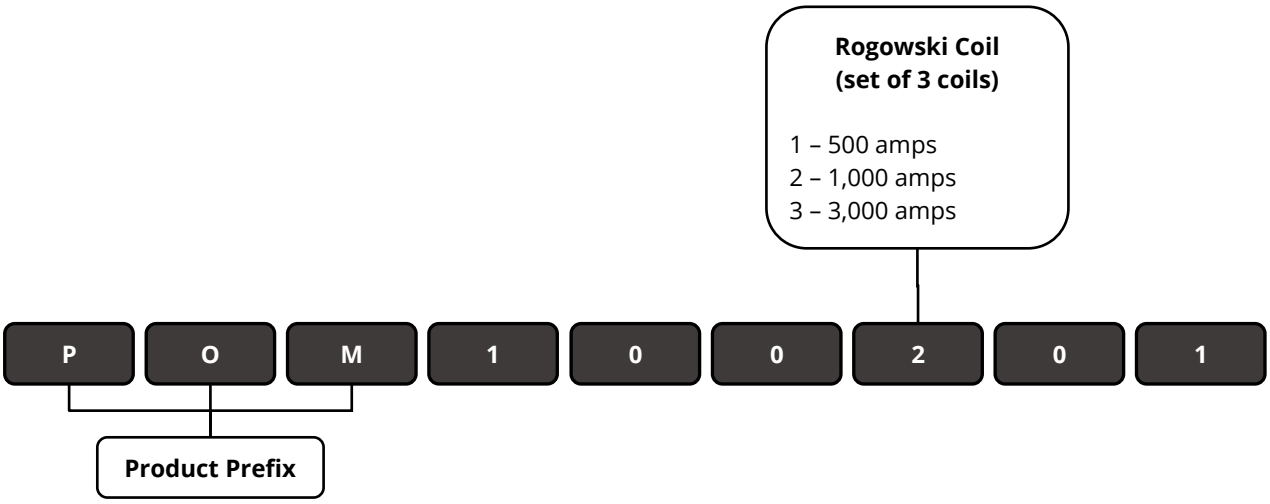
Dimensions

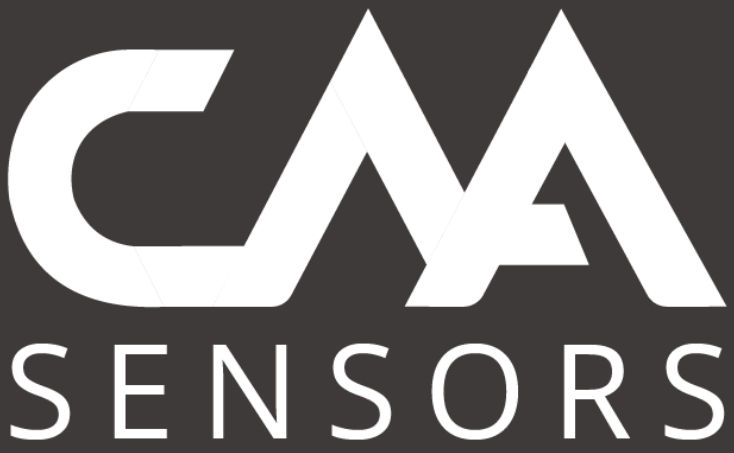




How to Order

Find a Distributor: www.caasensors/distributors





CAA Sensors Pty Ltd

Head Office: Sydney, Australia

Email: sales@caasensors.com

Website: www.caasensors.com

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