

Rogowski Coil with Integrator

Ideal for temporary installations or measuring one phase



More Info

Key Features

- Two output options:
 - 4-20mA or
 - Modbus
- Three rated options
 - 500 Amps or
 - 1,000 Amps or
 - 3,000 Amp
- Flexible coil for easy install
- Power Supply: 24 vDC
- Measure: Amps (A)
- High linearity
- Wide dynamic range
- Low power consumption
- Non-intrusive and draw no power from the main circuit



About

This flexible transducer is particularly suitable for current measurements in combination with portable devices or where simplified power consumption is required. The large flexible coil makes it an excellent solution where a traditional current clamp is too difficult to fit. The coil is shielded against the influence of external magnetic fields and is suitable for high power load analysis, impulsive current monitoring and DC ripple measurements.

The inline integrator amplifies and converts the coil's output to a 4-20mA or Modbus standard signal for simple connection to your PLC or display.

Applications

- Manufacturing and industrial use
- Sub-metering individual equipment or sub loads
- Temporary or permanent installation
- Measure single phase (amps)



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Specifications

Coil



Rated Amps:	500 Amps or 1,000 Amps or 3,000 Amps
Coil Length	
• 500 Amps	200mm 7.87"
• 1000 Amps	350mm 13.78"
• 3000 Amps	510mm 20.08"
Window Size	
• 500 Amps	50mm 1.97"
• 1000 Amps	100mm 3.94"
• 3000 Amps	150mm 5.91"
Lead Length	5 meters
Ratio	85mV / kA@50Hz / 100mV / kA@50Hz
Accuracy	<0.5% (central position, 25°C)
Maximum Current Measurable	100kA
Coil Resistance	from 100 to 250 Ω
Position Error	±1% maximum
Phase error	≤0.5°
Ambient Temperature	-20 to +70°C (-4 to +158°F)
Materials	Coil & cable: Thermoplastic rubber, flame retardant UL 94 V-0 rated

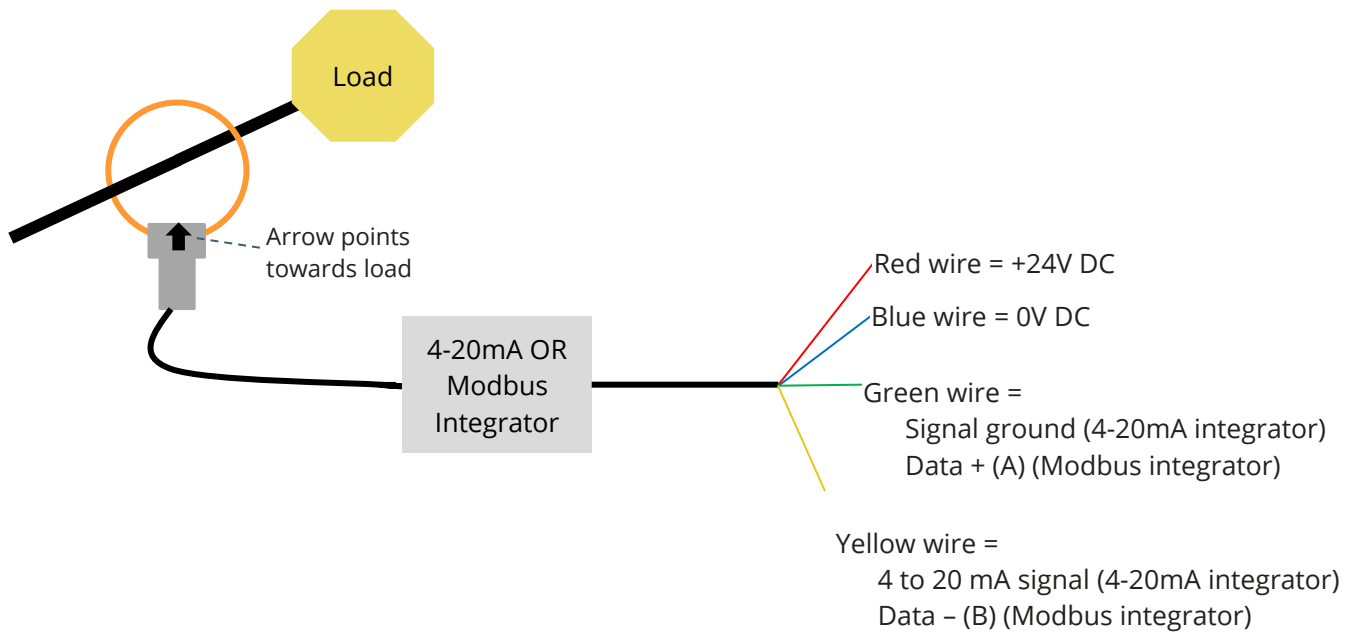
Integrator



Output	Modbus RTU (RS485) Or 4-20mA
Power Supply	24vDC (0.5W or above)
Amplitude Accuracy	25mA DC
Linearity	
• Modbus	±0.2% (10% to 100% F.S.)
• 4-20mA	±0.2% (1% to 200% of range)
Bandwidth	
• Modbus	30Hz to 5kHz
• 4-20mA	30Hz to 1kHz
Temperature Drift	
• Modbus	50ppm/°C
• 4-20mA	200ppm/°C
Phase Error	≤0.5°

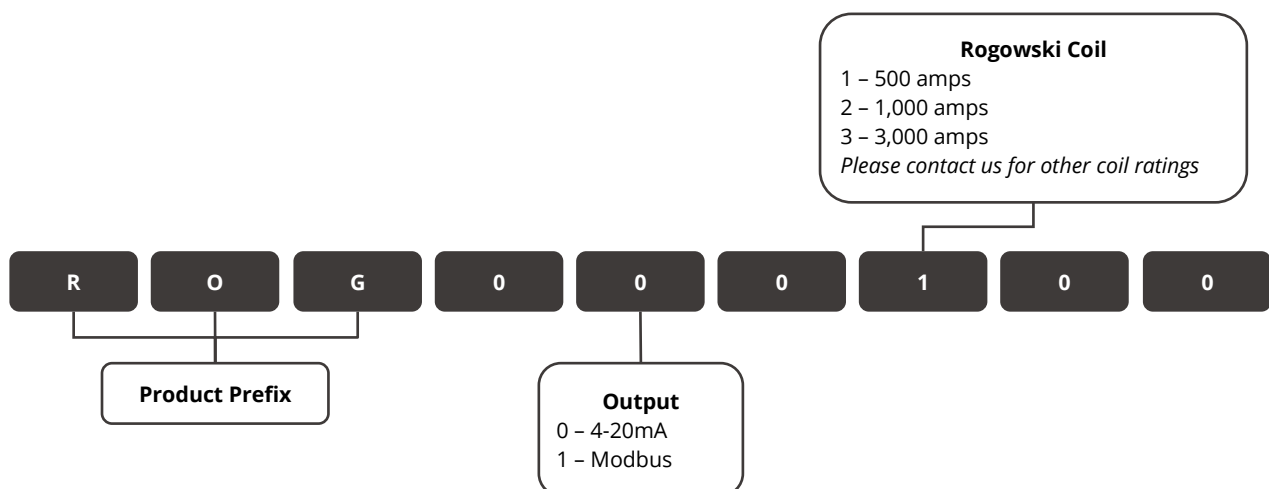


Wiring



How to Order

Buy online: www.compressedairalliance.com/products



Other Sensors

Dew Point Sensors

For compressed air and gas in manufacturing and industrial environments

Pressure Dew Point (PDP) Range

- -60 to +60°C (-76°F to +140°F)
 - for refrigerant, drum, membrane and desiccant dryers
- -80 to +20°C (-112°F to +68°F)
 - for membrane and desiccant dryers and Nitrogen systems
- -110 to +20°C (-166 °F to +68°F)
 - for membrane and desiccant dryers

Power Supply

24vDC

Outputs

Modbus RTU (RS485) and 4-20mA

Data Logging

No

Display

Optional

Accuracy

up to ±2%



Flow Meters

For compressed air and gas in manufacturing and industrial environments

Flow Meter Range

- Vortex – for very wet gas and steam
- Pitot Tube – for wet gas and high velocity gas
- Thermal Mass – for dry, clean gas

Power Supply

24vDC

Outputs

Modbus RTU (RS485) and 4-20mA

Data Logging

Yes

Display

Yes

Accuracy

±(1.5% RD + 0.3% FS)



Pressure Sensors

For compressed air and gas in manufacturing and industrial environments

Pressure Range

- 16 bar
- 50 bar

Power Supply

24vDC

Outputs

Modbus RTU (RS485) or 4-20mA

Data Logging

No

Display

No

Accuracy

±1%



Online Monitoring

Get online access to your data via a laptop, tablet or mobile phone. Monitor energy, water, gas and other data in real time, 24 hours per day, 7 days per week.

- Suitable for all Compressed Air Alliance products as well as other brands
- View and analyse data and graphs
- Set alarms and SMS and/or email notifications
- Track performance against targets
- Download data in csv format
- Self-assessments to compare your system against best practice

