

Isolated Analog Signal Converter Pt 1000

Features:

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Key Features

Ordering Information

Product Code	Description
AC-PT1000-420	Isolated Analog Signal Converter Pt 1000
AC-PT100-420	Isolated Analog Signal Converter Pt 100
SPD-20MA	4-20mA Surge Protection Device SPD 4 to 20mA
USS20M24V-D	Current Source Simulator 0/4 to 20mA
AC-420-420	Signal Isolator 4 20ma

Applications

- **Industrial Automation & Process Control:** Reliable signal interfacing and device connectivity across automated production lines.
- **SCADA & PLC Integration:** Seamless communication between field instrumentation and control systems.
- **Control Panel Building:** Compact 35 mm DIN rail mounting for clean and space-efficient cabinet wiring.
- **OEM Equipment & Diagnostics:** Robust electrical protection and standard industrial ratings.

Specifications

Parameter	Value
Mounting Type	35 mm DIN Rail Mounting
Dimensions	60 mm x 50 mm x 20 mm (L x W x H)
Enclosure Material	Industrial ABS plastic
Operating Temperature	−10 °C to +60 °C
Storage Temperature	−40 °C to +85 °C
Relative Humidity	5% to 95% RH (non-condensing)

Electrical Specifications

Parameter	Specification
Power Supply	24V DC (15 ~ 28V DC)
Conversion Accuracy	< ±0.5% of Full Scale @ 25 °C
Temperature Drift	< 100 ppm / °C
Galvanic Isolation	1,000 V RMS (Input / Output / Power Isolation)

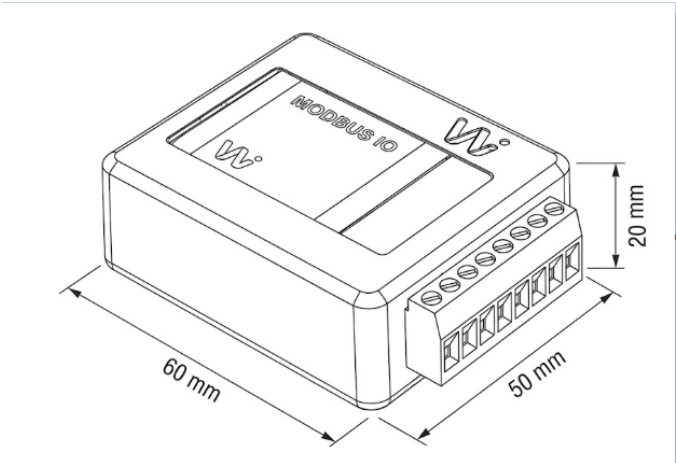
Input/Output Specifications

Parameter	Value
Input Signal Range	Standard industrial analog signal
Output Signal Range	4–20 mA (Load <= 500 Ω) or 0–10 V DC (Load >= 2 kΩ)
Response Time	< 10 ms

Isolation & Protection Specifications

Parameter	Value	Standard / Notes
Galvanic Isolation	1,000 V RMS	Optical and magnetic isolation barrier
Reverse Polarity Protection	Integrated	Protects internal circuitry against reverse DC wiring
Transient Clamping	600W TVS	Surge and spike suppression across all ports

Mechanical Dimensions



Terminal Details & Wiring

Pluggable industrial screw terminal block connections for input signal, isolated output signal, and 24V DC power.

Revision History

Revision	Date	Description of Change
Rev 1.0	2026-09-09	Initial datasheet release for AC-PT1000-420

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