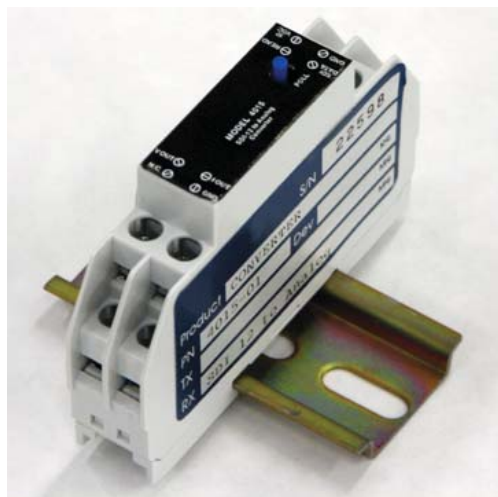# 4015 SDI-12 to Analog Converter

Convert all SDI-12 sensors to analog systems.

- Configure 0-1mA, 0-20mA, 4-20mA, or 0-5V outputs
- Master or "Listen only" modes
- Programmable full scale and zero values
- High Conversion Accuracy
- DIN rail mountable

Description

The 4015 SDI-12 to Analog Converter is used as an interface between an SDI-12 serial communications bus and an analog measurement system. The converter can either act as a SDI-12 master by polling a sensor on a timed basis or "listen only" as an external recorder polls the sensor. Each SDI-12 to Analog Converter responds to a single SDI-12 address and parameter. Multiple SDI-12 to Analog converter can be used to translate several sensor parameters to individual analog outputs. The output of the converter is proportional to the "value" of the sensor response. Full scale and zero values can be programmed by the user to scale the analog output with respect to the raw sensor value.

The 4015 SDI-12 to Analog Converter can be configured to provide a 0-1mA, 0-20mA, or 4-20mA current output with 0-5 volt output always available. The connection to the data transmitter or measurement system consists of continuous power (10 to 33VDC), ground, and a switched read voltage (5 to 33VDC) that enables the analog output. With the read terminal energized, power consumption increases to the sum of the current output (20mA max) and an additional 4 mA (max). With the read terminal de-energized, current drops to less than 500 uA.

Specifications

Communication: SDI-12 (version 1.1 compliant)
Resolution: 12-Bit
Accuracy: Better than 0.1%
Wire Size: #24-#14 AWG
Connections: Screw Terminal
Mounting: DIN rail (35mm)
Power Supply: 12 VDC @ less than 500uA during sleep. 8mA+ Output (max) during read.
Operating Temperature: -22 to 140°F (-30 to 60°C)
Size: 3.5"x0.75"x2.1" (89x19x53mm) (LxWxH)
Weight: 1.9 oz (54g)

Options and Accessories

4015 SDI-12 to Analog converter

4015 SDI-12 to Analog converter cable and software
Required to set up the converter or make any changes to setup and calibration information if the client does not have access to be able to program the converter through an SDI-12 bus.

Regional Distributor

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