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Axiomatic Technologies is releasing a DIN rail mount, universal signal converter with three-way isolation for industrial automation and machine control panels.

The universal signal converter offers three-way isolation while translating one control signal into one to three simultaneous output signals (current, voltage and/or PWM). Switches allow the user to select the desired input and output(s) from the following options. A choice of PWM signal (0-5kHz, 0-100% Duty Cycle), 4-20 mA, 0/20 mA, -20 to +20 mA, 0-2.5V, 0-5V, 0-10V, +/-2.5V, +/-5V or +/-10V analog signal input is accepted. The same signals are available as the 3 simultaneous PWM, voltage and/or current outputs.

Span and zero adjust with multi-turn pots for both voltage and current outputs. A rugged power supply interface accepts 8...48VDC and is appropriate for machine applications. The circuitry is conformally coated and packaged in a lexan DIN rail enclosure designed for installation in a control panel. Plug-in screw terminal connections are provided for a minimum of 6wire operation. The converter operates from -40 to 85°C (-40 to 185°F).

Applications:

The signal converter provides precise signal conversion and isolation between sensors, PLC's and other controls. Applications include industrial automation, test equipment and off-highway machine automation. For harsh environments, the module should be mounted in a protective control panel.

Three-way isolation is used to eliminate ground loops causing signal errors. Also, control systems with limited channels can use the converter when each channel requires a different configuration. For example, the three-way isolation permits the device to provide a sinking input and sourcing output.

Axiomatic operates in Mississauga (Toronto), Canada and Tampere, Finland. As an engineering design firm and ISO9001:2000 registered manufacturing facility, our mission is to provide innovative low cost electronic controls for mobile, marine, mining, military, electric vehicle and industrial equipment OEM's.



Universal Signal Converter

DIN rail mount for control panels
Lexan enclosure with screw terminal connections

Dimensions:
0.88 x 3.23 x 3.54 inches
22.5 x 82.0 x 90.0 mm
(W x L x H excluding mating plug-in screw terminals)

The module accepts any of the following control signals as the single input or as the up to 3 signals for the outputs.

- PWM
- 0-2.5V, 0-5V, 0-10V
- -2.5 to +2.5V, -5 to +5V, -10 to +10V
- 4-20 mA, 0-20 mA, -20 to +20 mA

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