

## Model ADAM-6018

# Accurate and Reliable Thermocouple Measurement for Industrial Automation

8-Channel Thermocouple Input with DO Module

### **Overview**

The ADAM-6018 8-channel thermocouple input module is the most prevailing temperature sensor in today's industrial automation market. In addition to 8 T/C input channels, the ADAM-6018 is also equipped with 8 digital output channels such as auxiliary alarm outputs or pure outputs. It also comes with an external DIN-rail terminal board for wiring between the ADAM-6018 module and the field sensor. This special wiring mechanism greatly enhances the accuracy and reliability for thermocouple measurement in environmental and facility monitoring applications.

#### **Features**

- I/O type: 8 thermocouple and 8 digital output
- 10/100 Based-T Ethernet
- Supports multi-channel/multi-range
- Provides default/customized web page
- 2,500 VDC optical isolation
- Built-in watchdog timer

# **Specifications**

Communication

Ethernet interface: RJ45

Speeds: 10/100 Mbps

Max. Communication distance: 333 feet (100m), can be extended by using switch hub

Power and communication LED indicator TCP/IP, UDP, MODBUS/TCP supported Online module insertion and removal

Channels: 8 differential Effective Resolution: 16-bit

Input Type: Thermocouple

Thermocouple Type and Range:

760°C 0 Κ 1370°C 400°C Τ -100 ~ Ε 1000°C R 500 1750°C S 500 1750°C 500 1800°C

Isolation Voltage: 2000VDC

Fault and Overvoltage Protection: Withstands overvoltage up to ± 35 V

Sampling Rate: 10 samples / sec.

Input Impedance:  $10K\Omega$ 

Bandwidth: 13.1 Hz @ 50 Hz.

15.72 Hz @ 60 Hz

Accuracy:  $\pm$  0.1% or better Zero Drift:  $\pm$  6  $\mu$ V/°C Span Drift:  $\pm$  25 ppm/°C CMR @ 50/60 Hz: 92 dB min.

# International Headquarters:

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ADAM-6018 - 0704 - 2/1

Digital Output:

Channels: 8

Open collector to 30 V, 100 mA max. load

Optical Isolation: 2000V RMS

Power: Requirements: Unregulated 10 to 30 VDC (Protects against power reversal)

Power Consumption: 2 W

Mechanical

Case: ABS with captive mounting hardware

Plug-in screw terminal block: Accepts 0.5 to 2.5 mm<sup>2</sup>, 1 - #12 or 2 - #22 AWG

**Environment** 

Operating Temperature: -10 to 70°C (14 to 158°F)

EMI: Meets FCC Class A

Storage Temperature: -20 to 80°C (-13 to 185°F)

Humidity: 5 to 95%, non-condensing

**Ordering Information** 

Model #: Description:

ADAM-6018 .....8-channel T/C Input with Digital Output Module

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