ADAM-4018+

8-ch Thermocouple Input Module

General

- **Certification:** CE, FCC
- **Connectors:** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Input:** Unregulated 10 ~ 30 VDC
- **Power Consumption:** 0.8 W @ 24 VDC
- **Watchdog Timer:** System (1.6 s) & Communication
- **Supported Protocols:** ASCII command and Modbus/RTU

Environment

- **Operating Humidity:** 5 ~ 95% RH
- **Operating Temperature:** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature:** -25 ~ 85°C (-13 ~ 185°F)

Analog Input

- **Channels:** 8 differential
- **Channel Independent Configuration:** Yes
- **Input Impedance:**
    Voltage: 20 MΩ
    Current: 120 Ω
- **Input Type:** Thermocouple, mA
- **Input Range:**
    ±20 mA, 4 ~ 20mA
- **Thermocouple Types and Temperature Ranges:**
    J: 0 ~ 760°C
    K: 0 ~ 1,370°C
    T: -100 ~ 400°C
    E: 0 ~ 1,000°C
    R: 500 ~ 1,750°C
    S: 500 ~ 1,750°C
    B: 500 ~ 1,800°C
- **Burnout Detection:** All Thermocouples
- **Accuracy:**
    Voltage mode: ±0.1% or better
    Current mode: ±0.2% or better
- **Resolution:** 16-bit
- **Sampling Rate:** 10 sample/second (total)
- **Isolation Voltage:** 3,000 VDC
- **Overvoltage Protection:** ±35 VDC
- **CMR @ 50/60 Hz:** 120 dB
- **NMR @ 50/60 Hz:** 100 dB
- **Span Drift:** ± 25 ppm/°C (Typical)
- **Zero Drift:** ± 6 µV/°C
- **Built-in TVS/ESD Protection**