

ADAM-6015

ADAM-6017

ADAM-6018

7-ch Isolated RTD Input Module
8-ch Isolated Analog Input Module with 2-ch DO
8-ch Isolated Thermocouple Input Module with 8-ch DO



ADAM-6015



ADAM-6017



ADAM-6018



Specifications

Analog Input

- **Channels** 7 (differential)
- **Input Impedance** > 10 M Ω
- **Input Connections** 2 or 3 wire
- **Input Type** Pt, Balco and Ni RTD
- **RTD Types and Temperature Ranges**
 - Pt 100 -50° C ~ 150° C
 - 0° C ~ 100° C
 - 0° C ~ 200° C
 - 0° C ~ 400° C
 - 200° C ~ 200° C
 - Pt 1000 -40° C ~ 160° C
- Supports both IEC 60751 ITS90 (0.03851 $\Omega/\Omega/^\circ\text{C}$) and JIS C 1604 (0.03916 $\Omega/\Omega/^\circ\text{C}$)
- Balco 500 -30° C ~ 120° C
- Ni 518 -80° C ~ 100° C
- 0° C ~ 100° C
- **Accuracy** $\pm 0.1\%$ or better
- **Span Drift** ± 25 ppm/ $^\circ\text{C}$
- **Zero Drift** ± 6 $\mu\text{V}/^\circ\text{C}$
- **Wire Burn-out Detection**

Ordering Information

- **ADAM-6015** 7-ch Isolated RTD Input Module

Specifications

Analog Input

- **Channels** 8 (differential)
- **Input Impedance** > 10 M Ω (voltage)
120 Ω (current)
- **Input Type** mV, V, mA
- **Input Range** ± 150 mV, ± 500 mV, ± 1 V
 ± 5 V, ± 10 V, 0-20 mA,
4-20 mA
- **Accuracy** $\pm 0.1\%$ or Better (voltage)
 $\pm 0.2\%$ or Better (current)
- **Span Drift** ± 25 ppm/ $^\circ\text{C}$
- **Zero Drift** ± 6 $\mu\text{V}/^\circ\text{C}$

Digital Output

- **Channels** 2
- **Open Collector to 30 V, 100 mA max. load**
- **Power Dissipation** 300 mW for each module

Ordering Information

- **ADAM-6017** 8-ch Isolated AI with 2-ch DO Module

Specifications

Analog Input

- **Channels** 8 (differential)
- **Input Impedance** > 10 M Ω
- **Input Type** Thermocouple
- **Thermocouple Type and Range:**
 - 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
- **Accuracy** $\pm 0.1\%$ or Better
- **Span Drift** ± 25 ppm/ $^\circ\text{C}$
- **Zero Drift** ± 6 $\mu\text{V}/^\circ\text{C}$
- **Wire Burn-out Detection**

Digital Output

- **Channels** 8
- **Open Collector to 30 V, 100 mA max. load**
- **Power Dissipation** 300 mW for each module

Ordering Information

- **ADAM-6018** 8-ch Isolated Thermocouple Input w/ 8DO

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** 2 W @ 24 V_{DC}
- **Connectors** 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- **Watchdog** System (1.6 second) and Communication (programmable)
- **Power Input** 10 ~ 30 V_{DC}
- **Supports Peer-to-Peer**

- **Supports GCL**
- **Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols**

Analog Input

- **Resolution** 16-bit
- **Sampling Rate** 10 sample/second (total)
- **CMR @ 50/60 Hz** 90 dB
- **NMR @ 50/60 Hz** 60 dB

Protection

- **Over Voltage Protection** ± 35 V_{DC}
- **Isolation Protection** 2,000 V_{DC}

- **Built-in TVS/ESD Protection**
- **Power Reversal Protection**

Environment

- **Operating Temperature** -10 ~ 70° C
- **Storage Temperature** -20 ~ 80° C
- **Humidity (Operating)** 20 ~ 95% RH (non-condensing)
- **Humidity (Storage)** 0 ~ 95% RH (non-condensing)