

# ADAM-6015

# ADAM-6017

# ADAM-6018

7-ch Isolated RTD Input Module

8-ch Isolated Analog Input with 2-ch DO Module

8-ch Isolated Thermocouple Input with 8-ch DO Module



ADAM-6015

CE FCC



ADAM-6017

CE FCC



ADAM-6018

CE FCC

## Specifications

### Analog Input

- **Channels** 7 differential
- **Input Impedance** > 10 M $\Omega$
- **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
IEC RTD	100 ohms ( $\alpha = 0.0385$ )		
JIS RTD	100 ohms ( $\alpha = 0.0392$ )		
Pt 1000	-40° C	~	160° 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**  $\pm 25$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 6$   $\mu$ V/ $^{\circ}$ 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 $\Omega$  (voltage)  
120  $\Omega$  (current)
- **Input Type** mV, V, mA
- **Input Range**  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V  
 $\pm 5$  V,  $\pm 10$  V, 0-20 mA,  
4-20 mA
- **Accuracy**  $\pm 0.1\%$  or Better
- **Span Drift**  $\pm 25$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 6$   $\mu$ V/ $^{\circ}$ 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 $\Omega$
- **Input Type** Thermocouple
- **Thermocouple Type and Range:**

J	0	~	760° C
K	0	~	1370° C
T	-100	~	400° C
E	0	~	1000° C
R	500	~	1750° C
S	500	~	1750° C
B	500	~	1800° C
- **Accuracy**  $\pm 0.1\%$  or Better
- **Span Drift**  $\pm 25$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 6$   $\mu$ V/ $^{\circ}$ 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** 10/100 Base-T
- **Power Consumption** 2 W @ 24 V<sub>DC</sub>
- **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** Unregulated 10 ~ 30 V<sub>DC</sub>

- **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
- **CMR @ 50/60 Hz** 90 dB
- **NMR @ 50/60 Hz** 60 dB

### Protection

- **Over Voltage Protection**  $\pm 35$  V<sub>DC</sub>

- **Isolation Protection** 2000 V<sub>DC</sub>
- **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)