

# ADAM-6015

# ADAM-6017

# ADAM-6018

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



ADAM-6015 COMPLIANT 2002/95/EC



ADAM-6017 COMPLIANT 2002/95/EC



ADAM-6018 COMPLIANT 2002/95/EC

## 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
  - Pt 1000 -40° C ~ 160° C
- Supports both IEC 60751 ITS90 (0.03851 W/W/°C) and JIS C 1604 (0.03916 W/W/°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/° C
- **Zero Drift**  $\pm 6$   $\mu$ V/° C
- **Wire Burn-out Detection**

## Ordering Information

- **ADAM-6015** 7-ch Isolated RTD Input Modbus TCP 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 (voltage)  
 $\pm 0.2\%$  or Better (current)
- **Span Drift**  $\pm 25$  ppm/° C
- **Zero Drift**  $\pm 6$   $\mu$ V/° 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 Modbus TCP 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 ~ 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**  $\pm 25$  ppm/° C
- **Zero Drift**  $\pm 6$   $\mu$ V/° 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 Modbus TCP Module w/ 8-ch DO

## Common Specifications

### General

- **LAN** 10/100Base-T(X)
- **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** 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 (total)
- **CMR @ 50/60 Hz** 90 dB
- **NMR @ 50/60 Hz** 60 dB

### Protection

- **Over Voltage Protection**  $\pm 35$  V<sub>DC</sub>
- **Isolation Protection** 2,000 V<sub>DC</sub>

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

### Environment

- **Operating Temperature** -10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)