

# 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



ADAM-6017



ADAM-6018

## Specifications

### Analog Input

- **Channels** 7 (differential)
- **Input Impedance** > 10 MΩ
- **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** ± 0.1 % or better
- **Span Drift** ± 25 ppm/° C
- **Zero Drift** ± 6 μV/° 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 MΩ (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** ±0.1% or Better (voltage)  
±0.2% or Better (current)
- **Span Drift** ±25 ppm/° C
- **Zero Drift** ±6 μV/° 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 MΩ
- **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** ±0.1% or Better
- **Span Drift** ±25 ppm/° C
- **Zero Drift** ±6 μV/° 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** ±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)