

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 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 (0.0385 W/W/°C) and JIS C 1604 (0.0392 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
- High speed mode $\pm 0.5\%$ or better
- **Span Drift** ± 25 ppm/°C
- **Zero Drift** ± 6 μ V/°C
- **Resolution** 16-bit
- **Sampling Rate** 10 sample/ second (total)
- High speed mode: 1K sample/second (total)
- CMR @ 50/60 HZ 90dB
- NMR @ 50/60 HZ 60dB
- * high speed mode does not support CMR/NMR
- **Wire Burnout Detection**

Ordering Information

- **ADAM-6015** 7-ch Isolated RTD Input Modbus TCP 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, ± 150 mV, 0 ~ 500 μ V, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 20mA, 4 ~ 20mA, ± 20 mA
- **Accuracy** $\pm 0.1\%$ (voltage)
 $\pm 0.2\%$ (current)
- **Span Drift** ± 25 ppm/°C
- **Zero Drift** ± 6 μ V/°C
- **Resolution** 16-bit
- **Sampling Rate** 10 or 100 sample/ second (total)
- CMR @ 50/60 HZ 90dB
- NMR @ 50/60 HZ 67dB
- **Common-Mode Voltage** 350V_{DC}

Digital Output

- **Channels** 2, open collector to 30 V, 100 mA max. load
- **Power Dissipation** 300 mW for each module
- **Output Delay** On: 100 μ s
Off: 150 μ s

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 Ω
 - **Input Type** Thermocouple
 - **Thermocouple Type and Range:**
- | | | | |
|----------|--------------|----------|---------------|
| J | 0 ~ 760°C | R | 500 ~ 1,750°C |
| K | 0 ~ 1,370°C | S | 500 ~ 1,750°C |
| T | -100 ~ 400°C | B | 500 ~ 1,800°C |
| E | 0 ~ 1,000°C | | |
- **Accuracy** $\pm 0.1\%$
 - **Span Drift** ± 25 ppm/°C
 - **Zero Drift** ± 6 μ V/°C
 - **Resolution** 16-bit
 - **Sampling Rate** 10 sample/ second (total)
 - CMR @ 50/60 HZ 90dB
 - NMR @ 50/60 HZ 60dB
 - **Wire Burnout 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** 2.5 W @ 24 V_{DC} (ADAM-6015)
2.7 W @ 24 V_{DC} (ADAM-6017)
2 W @ 24 V_{DC} (ADAM-6018)
- **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, HTTP and MQTT (ADAM-6017) Protocols**

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 (14 ~ 158°F)
-40 ~ 70°C (-40 ~ 158°F) (ADAM-6017-D)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
-40 ~ 80°C (-40 ~ 176°F) (ADAM-6017-D)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)