

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_{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 (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)