

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 Module



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
 - 40°C ~ 160°C
 - Pt 1000 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, 0 ~ 150mV, 0 ~ 500mV, 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 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@25°C Type J,K,E,R,S: $\pm 0.1\%$ FSR Max
Type B: $\pm 0.15\%$ FSR Max
Type T: $\pm 0.2\%$ FSR Max
- Span Drift ± 25 ppm/°C
- Zero Drift ± 6 μ V/°C
- Resolution 16-bit
- Sampling Rate 10 sample/second (total)
- Wire Burnout Detection

Ordering Information

- ADAM-6018+ 8-ch Isolated Thermocouple Input Module

Common Specifications

General

- Certification CE, FCC, UL
*Class I, Division 2, Groups A, B, C and D Hazardous Locations for ADAM-6015 and ADAM-6017
- LAN 10/100Base-T(X)
- Power Consumption 2.5 W @ 24 V_{DC} (ADAM-6015)
2.7 W @ 24 V_{DC} (ADAM-6017)
1 W @ 24 V_{DC} (ADMA-6018+)
- Connectors 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)

- Watchdog System (1.6 second) and Communication (programmable)
10 ~ 30 V_{DC}
- Power Input
- Supports Peer-to-Peer
- Supports GCL
- Supports Modbus/TCP, TCP/IP, UDP, RESTful
- Supports MQTT (D version), SNMP (D version) Protocols (ADAM-6017 and ADAM-6018+)
- Protection
 - 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) (D version)
- Storage Temperature -20 ~ 80°C (-4 ~ 176°F)
-40 ~ 85°C (-40~185°F) (D version)
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)