

# 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 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 (0.0385 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 ±0.1% or better
- High speed mode ±0.5% or better
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°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 MΩ (voltage)  
120 Ω (current)
- Input Type mV, V, mA
- Input Range
 

±150mV, ±500mV, ±1V, ±5V, ±10V, 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 20mA, 4 ~ 20mA, ±20mA
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- Accuracy ±0.1% (voltage)  
±0.2% (current)
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°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<sub>DC</sub>
- Digital Output
  - Channels 2, open collector to 30 V, 100 mA max. load
  - Power Dissipation 300 mW for each module
  - Output Delay On: 100μs  
Off: 150μs

## 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: ±0.1% FSR Max  
Type B: ±0.15% FSR Max  
Type T: ±0.2% FSR Max  
±25 ppm/°C
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°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<sub>DC</sub> (ADAM-6015)  
2.7 W @ 24 V<sub>DC</sub> (ADAM-6017)  
1 W @ 24 V<sub>DC</sub> (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)  
10 ~ 30 V<sub>DC</sub>

- 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<sub>DC</sub>
- 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)