

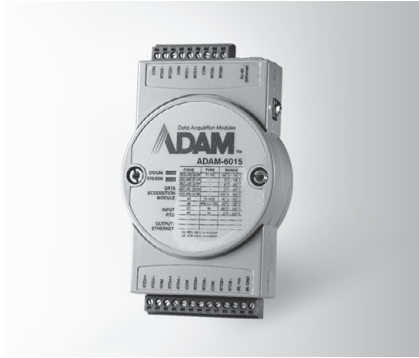
# ADAM-6015

# ADAM-6017

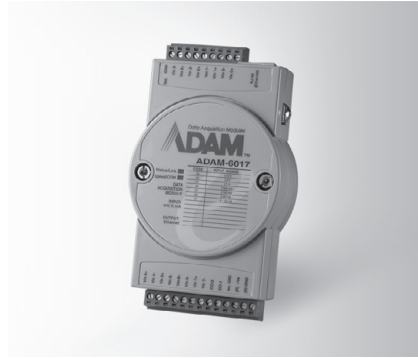
# ADAM-6018+

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 $\Omega$
- 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  $\pm 25$  ppm/°C
- Zero Drift  $\pm 6$   $\mu$ 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 $\Omega$  (voltage)  
120  $\Omega$  (current)
- Input Type mV, V, mA
- Input Range  $\pm 150$ mV,  $\pm 500$ mV,  $\pm 1$  V,  $\pm 5$ V,  $\pm 10$ V, 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 20mA, 4 ~ 20mA,  $\pm 20$ mA
- Accuracy  $\pm 0.1\%$  (voltage)  
 $\pm 0.2\%$  (current)
- Span Drift  $\pm 25$  ppm/°C
- Zero Drift  $\pm 6$   $\mu$ 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<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: 100 $\mu$ s  
Off: 150 $\mu$ 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  $\pm 25$  ppm/°C
- Zero Drift  $\pm 6$   $\mu$ 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
- 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> (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<sub>DC</sub>
- Power Input
- Supports Peer-to-Peer
- Supports GCL
- Supports Modbus/TCP, TCP/IP, UDP, RESTful, MQTT (D version), SNMP (D version) Protocols
- 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)

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