

# 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 $\Omega$
- **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 Impedance** > 10 M $\Omega$
- **Input Type** Thermocouple
- **Thermocouple Type and Range:**

<b>J</b>	0 ~ 760°C	<b>R</b>	500 ~ 1,750°C
<b>K</b>	0 ~ 1,370°C	<b>S</b>	500 ~ 1,750°C
<b>T</b>	-100 ~ 400°C	<b>B</b>	500 ~ 1,800°C
<b>E</b>	0 ~ 1,000°C		
- **Accuracy**  $\pm 0.1\%$
- **Span Drift**  $\pm 25$  ppm/°C
- **Zero Drift**  $\pm 6$   $\mu$ 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<sub>DC</sub> (ADAM-6015)  
2.7 W @ 24 V<sub>DC</sub> (ADAM-6017)  
2 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)

- **Power Input** 10 ~ 30 V<sub>DC</sub>
- **Supports Peer-to-Peer**
- **Supports GCL**
- **Supports Modbus/TCP, TCP/IP, UDP, HTTP and MQTT (ADAM-6017) Protocols**
- **Protection**
- **Over Voltage Protection**  $\pm 35$  V<sub>DC</sub>
- **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) (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)