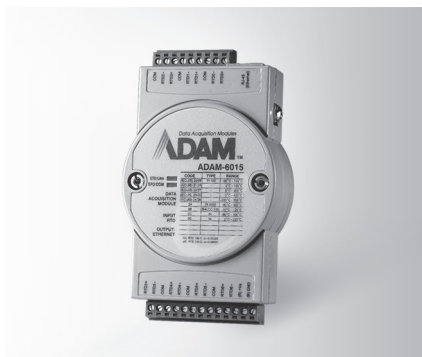


ADAM-6015

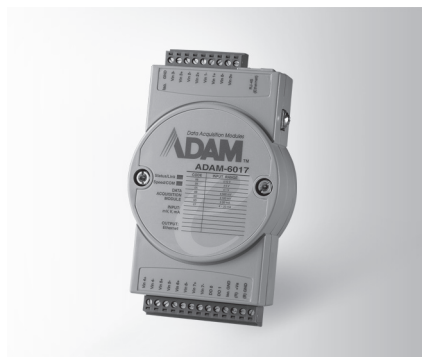
ADAM-6017

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 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
 - 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 ± 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 Burn-out 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 Impedance > 10 M Ω
- 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 $\pm 0.1\%$
- Span Drift ± 25 ppm/°C
- Zero Drift ± 6 μ V/°C
- Resolution 16-bit
- Sampling Rate
 - 10 sample/ second (total)
 - CMR @ 50/60 HZ 90dB
 - NMR @ 50/60 HZ 60dB
- 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
 - 2.5 W @ 24 V_{DC} (ADAM-6015)
 - 2.7 W @ 24 V_{DC} (ADAM-6017)
 - 2 W @ 24 V_{DC} (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_{DC}
- Supports Peer-to-Peer
- Supports GCL
- Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols

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)
 - 20 ~ 70°C (-4 ~ 158°F) (ADAM-6017)
- Storage Temperature
 - 20 ~ 80°C (-4 ~ 176°F)
 - 30 ~ 80°C (-22 ~ 176°F) (ADAM-6017)
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)