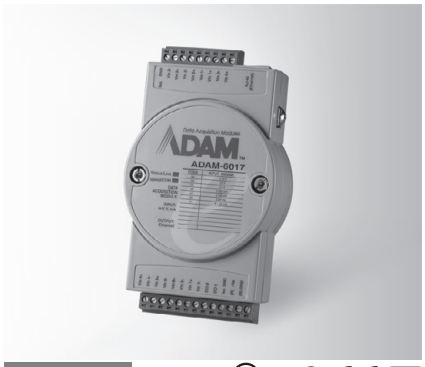
ADAM-6015
ADAM-6017
ADAM-6018+

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 , ±1 V , ±5V , ±10V, 0 ~ 150mV, 0 ~ 500mV , 0 ~ 1V , 0 ~ 5V , 0 ~ 10V, 0 ~ 20mA , 4 ~ 20mA , ±20mA
- **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_{DC}

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
- **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
- **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} (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, RESTful ,**
- **MQTT (D version), SNMP (D version) Protocols**

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)

Last updated: 13-Aug-2021