



## ADAM-6015

### 7-ch Isolated RTD Input Modbus TCP Module

Universal, programmable I/O device server with web server, Modbus/TCP and SNMP support. Serial ports, digital I/O and Dallas 1-wire support.

- TI/O Type: 7 RTD
- 10/100Based-T Ethernet
- Supports multi-channel/multi-range
- Pt 100/1000, Ni, Balco 500
- Wiring burn-out detect function

The ADAM-6015 7-channel RTD input module accepts a wide range of RTD sensor types, including Pt100, Pt1000, Ni50, Ni508, and Balco 500 series. Multi input ranges are allowed in one module, creating a cost-effective solution. Most important of all, the ADAM-6015 supports open wiring diagnostic function which warns operators when the sensor wire has been broken. It specifically aims at building and factory temperature monitoring applications.

### PRODUCT SPECIFICATIONS

<b>Details</b>	
<b>Display</b>	
LED Indicators	Status, Comm, Link, Speed
<b>Power Supply</b>	
Power Requirement	10~30 VDC
<b>Analog Input</b>	
Direct Sensor Input	RTD (Pt, Balco, or Ni)
Burn-out Detection	Yes
Channel Independent Configuration	Yes
Sampling Rates	10 samples/second
Resolution	16-bit
Channels	7 (2 or 3-wired)
Input Impedance	>10 MOhm
Span Drift	±25 ppm/°C
Zero Drift	±6 µV/°C



## ADAM-6015

### PRODUCT SPECIFICATIONS

<b>General</b>	
Watchdog Timer	System (1.6 second) & Communication (programmable)
Temperature (Operating)	-10~70 °C (14~158 °F)
Humidity	20~95 %RH
Temperature (Storage)	-20~80 °C (-4~176 °F)
Interface	10/100Base-T(X)
Peer-to-Peer	Yes
GCL	Yes
Isolation Protection	2000 VDC
Communication Protocol	Modbus/TCP, TCP/IP, UDP, and HTTP
Communication Speed	Ethernet: 10/100Mbps
Comm. Distance	Ethernet: 100 m
Connector	1 x RJ-45 (LAN) & 2 x plug-in terminal block (I/O and power)

### OTHER 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

### OTHER SPECIFICATIONS

**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 Burn-out Detection**  
**Ordering Information**   
 ADAM-6015 7-ch Isolated RTD Input Modbus TCP  
 Module



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### COMMON SPECIFICATIONS

#### General

<b>LAN</b>	10/100Base-T(X) <input type="checkbox"/>
<b>Power Consumption</b>	2.5 W @ 24 VDC (ADAM-6015) 2.7 W @ 24 VDC (ADAM-6017) 2 W @ 24 VDC (ADAM-6018) <input type="checkbox"/>
<b>Connectors</b>	1 x RJ-45 (LAN) Plug-in screw terminal block (I/O and power) <input type="checkbox"/>
<b>Watchdog</b>	<b>System (1.6 second) and Communication (programmable) <input type="checkbox"/></b>
<b>Power Input</b>	<b>10 ~ 30 VDC <input type="checkbox"/></b>
<b>Supports Peer-to-Peer</b>	<input type="checkbox"/>
<b>Supports GCL</b>	<input type="checkbox"/>
<b>Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols</b>	

#### Protection

<b>Over Voltage</b>	±35
<b>VDC Protection</b>	<input type="checkbox"/>
<b>Isolation Protection</b>	2,000 VDC <input type="checkbox"/>
<b>Built-in TVS/ESD Protection</b>	<input type="checkbox"/>
<b>Power Reversal Protection</b>	

#### Environment

<input type="checkbox"/>	
<b>Operating Temperature</b>	-10 ~ 70°C (14 ~ 158°F) -20 ~ 70°C (-4 ~ 158°F) (ADAM-6017) <input type="checkbox"/>
<b>Storage Temperature</b>	-20 ~ 80°C (-4 ~ 176°F) -30 ~ 80°C (-22 ~ 176°F) (ADAM-6017) <input type="checkbox"/>
<b>Operating Humidity</b>	20 ~ 95% RH (non-condensing) <input type="checkbox"/>
<b>Storage Humidity</b>	0 ~ 95% RH (non-condensing)

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