

# ADAM-6217

# ADAM-6224

## 8-ch Isolated Analog Input Modbus TCP Module

## 4-ch Isolated Analog Output Modbus TCP Module



ADAM-6217



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### Specifications

#### Analog Input

- Channels 8 (differential)
- Input Impedance > 10 MW (voltage)  
120 W (current)
- Input Type mV, V, mA
- Input Range  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V,  $\pm 5$  V,  $\pm 10$  V, 0 ~ 20 mA, 4 ~ 20 mA,  $\pm 20$  mA
- Span Drift  $\pm 30$  ppm/ $^{\circ}$ C
- Zero Drift  $\pm 6$   $\mu$ V/ $^{\circ}$ C
- Resolution 16-bit
- Accuracy  $\pm 0.1\%$  of FSR (Voltage) at 25 $^{\circ}$ C  
 $\pm 0.2\%$  of FSR (Current) at 25 $^{\circ}$ C
- Sampling Rate 10 sample/second (total)
- CMR @ 50/60 Hz 92 dB
- NMR @ 50/60 Hz 67 dB
- Common Mode 200 V<sub>DC</sub>

### Ordering Information

- ADAM-6217 8-ch Isolated Analog Input Modbus TCP Module

### Specifications

#### Analog Output

- Channels 4
- Output Impedance 2.1  $\Omega$
- Output Settling Time 20  $\mu$ s
- Driving Load Voltage: 2k $\Omega$   
Current: 500  $\Omega$
- Programmable Output Slope 0.125 ~ 128 mA/sec  
0.0625 ~ 64 V/sec
- Output Type V, mA
- Output Range 0 ~ 5 V, 0 ~ 10 V,  $\pm 5$  V,  $\pm 10$  V, 0 ~ 20 mA, 4 ~ 20 mA
- Accuracy  $\pm 0.3\%$  of FSR (Voltage) at 25 $^{\circ}$ C  
 $\pm 0.5\%$  of FSR (Current) at 25 $^{\circ}$ C
- Resolution 12-bit
- Current Load Resistor 0 ~ 500  $\Omega$
- Drift  $\pm 50$  ppm/ $^{\circ}$ C

#### Digital Input

- Channels 4 (Dry Contact only)
- Dry Contact Logic 0: Open  
Logic 1: Closed to DGND

- Support DI Filter
- Support Inverted DI Status
- Support Trigger to Startup or Safety Value

### Ordering Information

- ADAM-6224 4-ch Isolated Analog Output Modbus TCP Module

### Common Specifications

#### General

- Ethernet 2-port 10/100 Base-TX (for Daisy Chain)
- Protocol Modbus TCP, TCP/IP, UDP, HTTP, DHCP, RESTful, SNMP (B version), MQTT (B version)
- Connector Plug-in 5P/15P screw terminal blocks
- Power Input 10 ~ 30 V<sub>DC</sub> (24 V<sub>DC</sub> standard)
- Watchdog Timer System (1.6 seconds)  
Communication (Programmable)
- Dimensions 70 x 122 x 27 mm
- Protection Built-in TVS/ESD protection  
Power Reversal protection  
Isolation protection: 2500 V<sub>DC</sub>
- Power Consumption ADAM-6217: 3.5W @ 24 V<sub>DC</sub>  
ADAM-6224: 6W @ 24 V<sub>DC</sub>

#### Features

- Daisy chain connection with auto-bypass protection
- Remote monitoring and control with smart phone/pad
- Group configuration capability for multiple module setup
- Flexible user-defined Modbus address
- Intelligent control ability by Peer-to-Peer and GCL function
- Multiple protocol support: Modbus TCP, TCP/IP, UDP, HTTP, DHCP, RESTful, SNMP (B version), MQTT (B version)
- Web language support: XML, HTML 5, Java Script
- System configuration backup
- User Access Control

#### Environment

- Operating Temperature -10 ~ 70 $^{\circ}$ C (14 ~ 158 $^{\circ}$ F)  
-40 ~ 70 $^{\circ}$ C (-40 ~ 158 $^{\circ}$ F) (B version)
- Storage Temperature -20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)  
-40 ~ 85 $^{\circ}$ C (-40 ~ 185 $^{\circ}$ F) (B version)
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)