

# ADAM-6217

# ADAM-6224

## 8-ch Isolated Analog Input Modbus TCP Module

## 4-ch Isolated Analog Output Modbus TCP Module



ADAM-6217



### 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



ADAM-6224



### 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
- **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  
Over Voltage protection:  $\pm 35$  V<sub>DC</sub>  
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, SNMP (ADAM-6217-B), MQTT (ADAM-6217-B)
- Web language support: XML, HTML 5, JavaScript
- System configuration backup
- User Access Control

#### Environment

- **Operating Temperature** -10 ~ 70 $^{\circ}$ C (14 ~ 158 $^{\circ}$ F) ADAM-6224  
-40 ~ 70 $^{\circ}$ C (-40 ~ 158 $^{\circ}$ F) ADAM-6217-B
- **Storage Temperature** -20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F) -40 ~ 80 $^{\circ}$ C (-40 ~ 176 $^{\circ}$ F) for ADAM-6217-B
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)