ADAM-6217

8-ch Isolated Analog Input Modbus TCP Module

ADAM-6224

4-ch Isolated Analog Output Modbus TCP Module

ADAM-6217

ADAM-6224

Specifications

Analog Input

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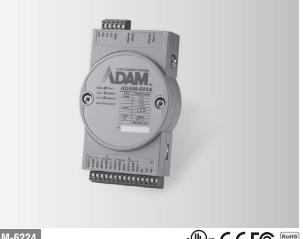- **Resolution** — 16-bit
- **Accuracy** — ± 0.1% of FSR (Voltage) at 25°C
  ± 0.2% of FSR (Current) at 25°C
- **Sampling Rate** — 10 sample/second (total)
- **CMR @ 50/60 Hz** — 92 dB
- **NMR @ 50/60 Hz** — 67 dB
- **Common Mode** — 200 V_{DC}

Ordering Information

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

Specifications

Analog Output

- **Channels** — 4
- **Output Impedance** — 2.1 Ω
- **Output Settling Time** — 20 µs
- **Driving Load** — Voltage: 2kΩ
  Current: 500 Ω
- **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, ± 5 V, ± 10 V, 0 ~ 20 mA, 4 ~ 20 mA
- **Accuracy** — ± 0.3% of FSR (Voltage) at 25°C
  ± 0.5% of FSR (Current) at 25°C
- **Resolution** — 12-bit
- **Current Load Resistor** — 0 ~ 500 Ω
- **Drift** — ± 50 ppm/°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_{DC} (24 V_{DC} 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_{DC}
- **Power Consumption** — ADAM-6217: 3.5W @ 24 V_{DC}
  ADAM-6224: 6W @ 24 V_{DC}

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°C (14 ~ 158°F)
  -40 ~ 70°C (-40~158°F) (B version)
- **Storage Temperature** — -20 ~ 80°C (-4 ~ 176°F)
  -40 ~ 85°C (-40~185°F) (B version)
- **Operating Humidity** — 20 ~ 95% RH (non-condensing)
- **Storage Humidity** — 0 ~ 95% RH (non-condensing)

ADVANTECH | **Ethernet I/O Modules: ADAM-6000**