Specifications

Digital Input
- **Channels**: ADAM-6250: 8  
  ADAM-6251: 16  
  ADAM-6256: 16 DO  
- **Dry Contact**: Logic 0: Open  
  Logic 1: Closed to DGND  
- **Wet Contact**: Logic 0: 0 – 3 V_OC or 0 – -3 V_OC  
  Logic 1: 10 – 30 V_OC or -10 – -30 V_OC  
  (Dry/Wet Contact decided by Switch)  
- **Input Impedance**: 5.2 kΩ (Wet Contact)  
- **Transition Time**: 0.2 ms  
- **Frequency Input Range**: 0.1 – 3kHz  
- **Counter Input**: 3kHz (32 bit + 1 bit overflow)  
- **Keep/Discard Counter Value when power off**  
- **Supports Inverted DI Status**

Digital Output
- **Channels**: ADAM-6250: 7 (Sink Type)  
  ADAM-6256: 16 (Sink Type)  
- **Output Voltage Range**: 10 – 30 V_OC  
- **Normal Output Current**: 100 mA (per channel)  
- **Pulse Output**: Up to 5kHz  
- **Delay Output**: High-to-Low and Low-to-High

Features
- Daisy chain connection with auto-bypass protection  
- Remote monitoring and control with smart phone/pad  
- Group configuration capability for multiple module setup  
- DI/O LED Indication  
- 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, MQTT, SNMP  
- 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 – 80°C (-40 – 176°F) (B version)  
- **Operating Humidity**: 20 – 95% RH (non-condensing)  
- **Storage Humidity**: 0 – 95% RH (non-condensing)

Common Specifications

General
- **Ethernet**: 2-port 10/100 Base-TX (for Daisy Chain)  
- **LED Indication**:  
  - ADAM-6250: 8 DI + 7 DO  
  - ADAM-6251: 16 DI  
  - ADAM-6256: 16 DO  
- **Protocol**: Modbus/TCP, TCP/IP, UDP, HTTP, DHCP, MQTT, SNMP  
- **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  
  Over Voltage protection: ±1.35V_OC  
  Isolation protection: 2500 V_OC

- **Power Consumption**:  
  - ADAM-6250: 3 W @ 24 V_OC  
  - ADAM-6251: 2.7 W @ 24 V_OC  
  - ADAM-6256: 3.2 W @ 24 V_OC