# **ADAM-6060**

# 6-ch Digital Input and 6-ch Relay Modbus TCP Module



NEW



## **Main Features**

- 6-ch DI, 6-ch RL, Ethernet-based smart I/O
- Remote monitoring and control with mobile devices
- Group configuration capability for multiple module setup
- Flexible user-defined Modbus address
- Intelligent control ability by Peer-to-Peer and GCL function
- Active I/O message by data stream or event trigger function
- Multiple protocol support: Modbus TCP, TCP/IP, UDP, HTTP, DHCP
- Web language support: XML, HTML 5, Java Script

# Introduction

ADAM-6000 accomplishes the integration of automation and enterprise systems easily through internet technology, so that users can avoid changing the entire architecture of the control system and even remotely monitor the device status more flexibly. ADAM-6000 modules are empowered by peer-to-peer (P2P) and Graphic Condition Logic (GCL), and can perform as standalone products for measurement, control and automation. Instead of having additional controllers or programming, system configurations can be done in an extremely short time with the easy-to-use and intuitive graphic utility.

## **Features**

### **Group Configuration Capability for Multiple Module Setup**

To aid configuration and save time, engineers can configure and upgrade the firmware of multiple ADAM-6000s simultaneously.



#### **Remote Monitoring and Control with Smart Phone**

With support for HTML5, the ADAM-6000 can be monitored and controlled from any browser on mobile devices whilst in the field and when the engineer is connected to their network.



## **Advanced Security and High Reliability**

ADAM-6000 Ethernet I/O modules have fast response time, and advanced security and reliability. When communication is broken, the digital output module can generate predefined values to ensure safety.

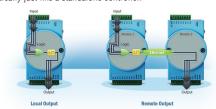
#### Peer-to-Peer

Modules will actively update the input channel status to specific output channels. Without dealing with the trouble of long distance wiring, users can define the mapping between a pair of modules.

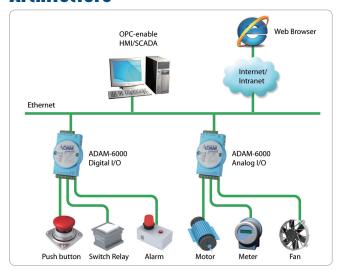


#### **Graphic Condition Logic**

Users can define the control logic rules through graphical configuration Utility, and download defined logic rules to specific ADAM module. Then, it will execute the logic rules automatically just like a standalone controller.



# **Architecture**



<u>AD\ANTE</u>CH

Ethernet I/O Modules

More Information Click Here

Remote I/O **ADAM-6060** 

# **Specifications**

## **Digital Input**

Channels

Dry Contact Logic level 0: close to GND

Logic level 1: open

Wet Contact Logic level 0: 3 V<sub>DC</sub> Logic level 1: 10 ~ 30 V<sub>DC</sub>

Supports 3 kHz Counter Input (32-bit + 1-bit overflow)

• Keep/Discard Counter Value when Power-off

Supports 3 kHz Frequency Input

- Supports Inverted DI Status

### **Relay Output (Form A)**

Channels

 Contact Rating 120 V<sub>AC</sub> @ 0.5 A, 30 V<sub>DC</sub> @ 1 A

(Resistive)

 Breakdown Voltage 500 V<sub>AC</sub> (50/60 Hz)

Relay On Time 7 ms Relay Off Time 3 ms Total Switching Time 10 ms

 Insulation Resistance 1 G $\Omega$  min. at 500 V<sub>DC</sub> 20 operations/minute

 Maximum Switching Rate (at rated load)

Supports Pulse Output

#### General

IAN 10/100Base-T(X) 2 W @ 24 V<sub>DC</sub> Power Consumption RJ-45 (Ethernet), Connectors

Plug-in screw terminal block (I/O and power)

Watchdog System (1.6 second) and

Communication (programmable)

Power Input  $10 \sim 30 V_{DC}$ Dimensions (W x H x D) 70 x 122 x 27 mm

Enclosure

DIN 35 rail, stack, wall Mounting

 Supports Peer-to-Peer, GCL Supports User Defined Modbus Address

Supports Modbus/TCP, TCP/IP, UDP, DHCP and HTTP Protocols

#### **Protection**

**Power Reversal Protection Isolation Protection** 

#### **Environment**

■ Operating Temperature -20 ~ 70°C (-4 ~ 158°F) ■ Storage Temperature -30 ~ 80°C (-22 ~ 176°F) Operating Humidity 20 ~ 95% RH (non-condensing) Storage Humidity 0 ~ 95% RH (non-condensing)

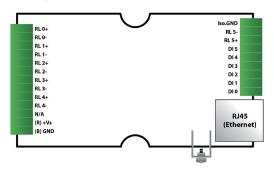
#### Software

• .NET Class Library (SDK) Windows and Windows CE Class Library, VB and VC# Sample Code for I/O Reading or Configuration and Communication

Adam/Apax .NET Utility Network Setting, I/O Configuration, Data stream, P2P,

GCL Configuration

# **Pin Assignment**



# **Ordering Information**

 ADAM-6060 6-ch DI and 6-ch Relay Modbus TCP Module

#### **Accessories**

PWR-242 DIN-rail Power Supply (2.1A Output Current) PWR-243 Panel Mount Power Supply (3A Output Current) Panel Mount Power Supply (4.2A Output Current) PWR-244

#### Software

PCLS-ADAMVIEW32 ADAMView Data Acquisition Software PCLS-OPC/MTP30 OPC Server for Modbus/TCP protocol

## **Dimensions** Unit: mm 60.00 25.00 45.00 8 22.00 R35.00 52.00 -43.0028.00 Front View Side View **DIN-Rail Mounting Adapter** Wall Mounting Bracket ......