ET-7002-OEM1

Regular Ethernet Version

Multifunction Module

Features

- Built-In Web Server
- Web HMI
- Modbus/TCP, Modbus/UDP Protocol
- Communication Security
- Dual Watchdog
- Operating Temperature: -25 ~ +75 °C
- I/O Pair Connection
- Built-In I/O
  - AI: 3 Channels
  - DI/Counter: 6 Channels
  - Power Relay: 3 Channels

Introduction

The ET-7000/PET-7000, a web-based Ethernet I/O module, features a built-in web server which allows configuration, I/O monitoring and I/O control by simply using a regular web browser. Remote control is as easy as you surfing the Internet.

Besides, with the web HMI function, no more programming or HTML skills are required; creating dynamic and attractive web pages for I/O monitoring and I/O control would be fun to engineers ever after. The ET-7000/PET-7000 offers easy and safe access for users from anytime and anywhere! In addition, the ET-7000/PET-7000 also supports Modbus/TCP protocol that makes perfect integration to SCADA software.

Applications

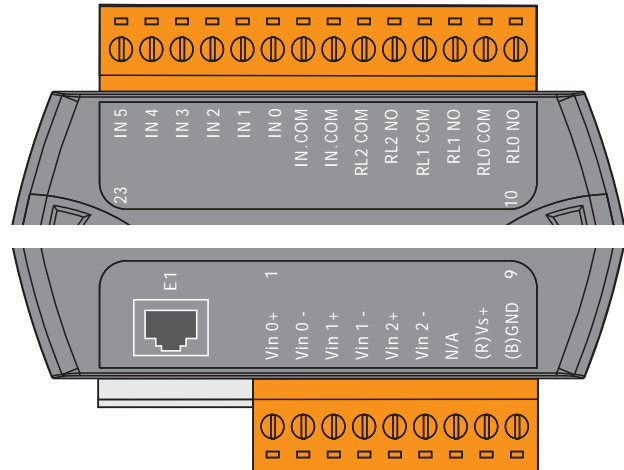Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote diagnosis, Testing Equipment.

System Specifications

Models	ET-7002-OEM1
Software	
Built-In Web Server	Yes
Web HMI	Yes
I/O Pair Connection	Yes
Communication	
Ethernet Port	10/100 Base-TX with Auto MDI/MDI-X
Protocol	Modbus/TCP, Modbus/UDP
Security	ID, Password and IP Filter
Dual Watchdog	Yes, Module (0.8 second), Communication (Programmable)
LED Indicators	
L1 (System Running)	Yes
L2 (Ethernet Link/Act)	Yes
L3 (Ethernet 10/100 M Speed)	Yes
PoE Power	-
2 Way Isolaiton	
Ethernet	1500 V_{DC}
I/O	2500 V_{DC}
EMS Protection	
ESD (IEC 61000-4-2)	4 kV Contact for each terminal, and 8KV Air for random point
EFT (IEC 61000-4-4)	+/-4 kV for Power
Power Requirements	
Reverse Polarity Protectionn	Yes
Powered from terminal block	Yes, 10 ~ 30 V_{DC}
Powered from PoE	-
Consumption	2.88 W
Mechanical	
Dimensions (W x L x D)	72 mm x 123 mm x 35 mm
Installation	DIN-Rail or Wall mounting
Environment	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +80 °C
Humidity	10 ~ 90% RH, non-condensing

☑ I/O Specifications

Analog Input		
Input Channels		3 (Differential)
Input Type		+/-20 mA, 0 ~ 20 mA, 4 ~ 20 mA
Individual Channel Configuration		Yes
Resolution	Normal Mode	16-bit
	Fast Mode	12-bit
Sampling Rate	Normal Mode	10 Samples/Sec. (Total)
	Fast Mode	60 Samples/Sec. (Total)
Accuracy	Normal Mode	+/-0.1%
	Fast Mode	+/-0.5% or better
Zero Drift		+/-20 uV/°C
Span Drift		+/-25 ppm/°C
Over Voltage Protection		240 V_{rms}
Input Impedance		125 Ω
Common Mode Rejection		86 dB Min.
Normal Mode Rejection		100 dB
Digital Input/Counter		
Input Channels		6
Type		Wet Contact (Sink, Source)
On Voltage Level		+19 V_{DC} ~ +30 V_{DC}
Off Voltage Level		+11 V_{DC} max.
Input Impedance		3 kΩ
Counters	Max. Count	4,294,967,285 (32 bits)
	Max. Input Frequency	100 Hz
	Min. Pulse Width	5 ms
Overvoltage Protection		30 V_{DC}
Power Relay		
Output Channels		3
Type		Power Relay, Form A (SPST N.O.)
Operating Voltage Range		250 V_{AC}/30 V_{DC}
Max. Load Current		5A/channel at 25 °C
Operate Time		5 ms (Typical)
Release Time		5 ms (Typical)
Mechanical Life		Typical 10 millions operation at 30Vdc / 2A, 110V_{DC} / 0.3A, 120V_{AC} / 0.5A, 240V_{AC} / 0.25A
Power-on Value		Yes, Programmable
Safe Value		Yes, Programmable

☑ Pin Assignment

☑ Wire Connection

Analog Input

Digital Input/Counter	Readback as 1	Readback as 0
	+19 ~ +30 V_{DC}	OPEN or <11 V_{DC}
Sink		
	+19 ~ +30 V_{DC}	OPEN or <11 V_{DC}
Source		

Power Relay	ON State Readback as 1	OFF State Readback as 0
Relay Output		
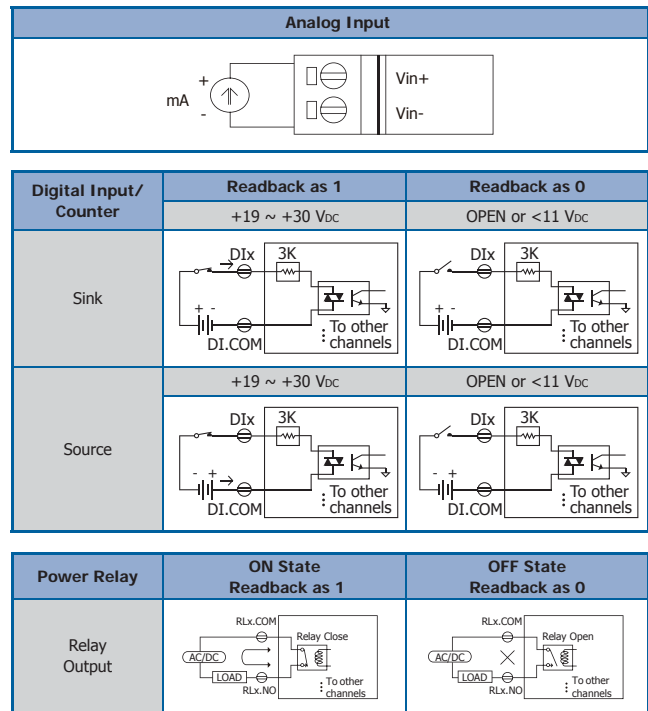
☑ Ordering Information

ET-7002-OEM1 CR	Multifunction (AI × 3, DI/Conunter × 6, Power Relay × 3) Module (RoHS)

☑ Accessories

NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; reguires 24 V_{DC} Input (RoHS)
MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)