ET-7000/PET-7000 Series (Web based)





Multifunction Module
☑ Features
■ PoE and Regular Ethernet Options
■ Built-In Web Server
■ Web HMI
■ Modbus/TCP, Modbus/UDP Protocol
Communication Security
■ Dual Watchdog
■ Wide Operating Temperature Range: -25 °C ~ +75 °C
■ I/O Pair Connection
■ Built-In I/O
☐ AI: 3 Channels
□ DI/Counter: 6 Channels
☐ Power Relay: 3 Channels
CE FE KOHS Z

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 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.

Furthermore, PET-7000 features "PoE" that not only data but also power is carried through an Ethernet cable. This feature makes installation of PET-7000 a piece of cake. Imagine that no more unnecessary wires, only an Ethernet cable takes care of everything in the field.

The ET-7002/PET-7002 is a multi-function module, there are 3-channel analog inputs, 6-channel digital inputs and 3-channel Relay outputs module. It provides programmable input range on all analog inputs (+/- 150 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, +/-20 mA, 0 \sim 20 mA and 4 \sim 20 mA). Each analog input is allowed to configure an individual range and has 240Vrms high overvoltage protection. Jumper selectable for voltage or current of inputs, ET-7002/PET-7002 is fully RoHS-compliant and has qualification for 4 kV ESD protection as well as 2500 Vpc intra-module isolation.

Applications -

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

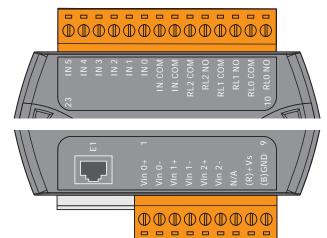
System Specifications .

3ystem specifications			
Models	ET-7002	PET-7002	
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 seconds), Communication (Programmable)		
LED Indicators			
L1 (System Running)	Yes		
L2 (Ethernet Link/Act)	Yes		
L3 (Ethernet 10/100 M Speed)	Yes		
PoE Power	-	Yes	
2 Way Isolation			
Ethernet	1500 V _{DC}	-	
I/O	2500 Vpc	2500 Vpc	
EMS Protection			
ESD (IEC 61000-4-2)	4 kV Contact for Each Terminal and 8 kV Air for Random Point		
EFT (IEC 61000-4-4)	+/-4 kV for Power		
Surge (IEC 61000-4-5)	+/-4 kV for Power		
Power Requirements			
Reverse Polarity Protection	Yes		
Powered from Terminal Block	Yes, 10 ~ 30 V _{DC}	Yes, 12 ~ 48 Vpc	
Powered from PoE	-	Yes, IEEE 802.3af, Class1	
Consumption	1.7 W		
Mechanical			
Dimensions (W x L x H)	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		

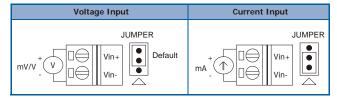
I/O Specifications ______

Analog Inp	ut			
Input Chann	els		3 (Dif	ferential)
Input Type		+/- 150 mV,+/- 500 mV, +/- 1V, +/- 5 V, +/-10 V + 0 mA ~ + 20 mA, +/- 20 mA, 4 ~ 20 mA (jumper selectable)		
Individual Ch	anne	el Configuration	Yes	
		Normal Mode	16-bit	:
Resolution		Fast Mode	12-bit	:
		Normal Mode	10 Sa	mples/Sec. (Total)
Sampling Ra	te	Fast Mode	60 Sa	mples/Sec. (Total)
		Normal Mode	+/-0.	1%
Accuracy		Fast Mode	+/-0.	5% or better
Zero Drift			+/-20	uV/°C
Span Drift			+/-25	ppm/°C
Overvoltage	Prote	ection	240 V	rms
Overcurrent	Prote	ction	50 m/	A max. at 110 Vpc/Vac max.
		Voltage	2 ΜΩ	
Input Imped	ance	Current	124 S	1
Common Mo	de Re	ejection	86 dB	Min.
Normal Mode	e Reje	ection	100 d	В
Digital Inpu	ut/C	ounter		
Input Channe	els		6	
Туре			Wet Contact (Sink or Source)	
On Voltage L	evel		+10 Vpc ~ +50 Vpc	
Off Voltage L	evel		+4 Vpc max.	
Input Imped	ance		10 KΩ, 0.5W	
	Cha	annels	6	
	Ma	x. Count	4,294,967,285 (32-bit)	
Counters	Max	x. Input Frequency	100 Hz	
	Min	ı. Pulse Width	5 ms	
Overvoltage Protection		+50 V _{DC}		
Power Rela	y			
Output Chan	nels		3	
Туре			Power Relay, Form A (SPST N.O.)	
Operating Vo	ltage	Range	250 Vac/30 Vdc	
Max. Load Current		5.0A/channel at 25 °C		
Operate Time		6 ms (Typical)		
Release Time		3 ms (Typical)		
				5 A @ 250 Vac 30,000 ops
Electrical Life (Resistive load)		VDE:	(10 ops/minute) at 75°C. 5 A @ 30 Vpc 70,000 ops	
			(10 ops/minute) at 75°C.	
			5 A @ 250 V _{AC} /30 V _{DC} 6,000 ops.	
		3 A @ 250 Vac/30 Vbc 100,000 ops.		
Mechanical Life		20,000,000 ops. at no load (300 ops./minute).		
Intra-module Isolation, Field-to-Logic		3750 Vdc		
Power-on Value		Yes, Programmable		
Safe Value		Yes, Programmable		

Pin Assignments _____



Wire Connections _



Digital Input/	Readback as 1	Readback as 0	
Counter	+10 ~ +50 V _{DC}	OPEN or <4 V _{DC}	
Sink	DI.COM To other channels	DIX 10K To other channels	
	+10 ~ +50 Vpc	OPEN or <4 Vpc	
Source	DIX 10K TO other channels	DIX 10K To other channels	

Power Relay	ON State Readback as 1	OFF State Readback as 0	
Relay Output	RLx.COM Relay Close AC/DC To other RLx.NO channels	RLx.COM Relay Open AC/DC To other channels	

ET-7002 CR	3-channel analog inputs, 6-channel digital inputs and 3-channel Relay outputs module (RoHS)	
PET-7002 CR	3-channel analog inputs, 6-channel digital inputs and 3-channel Relay outputs module PoE Module (RoHS)	

Accessories _____

		NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; reguires 24 Voc Input (RoHS)
	CHAPTER OF THE PARTY OF THE PAR	NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; reguires 48 Voc Input (RoHS)
	a lumi	NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; reguires 24 V _{DC} Input (RoHS)

MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
DIN-KA52F-48 CR	48V/0.52A, 25 W Power Supply with DIN-Rail Mounting (RoHS)