

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

Introduction

Regular Ethernet Version

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.

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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, +/-50 mV, +/-1 V, +/-5 V, +/-10 V, +/-20 mA, 0~20 mA and 4~20 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 Vec intra-module isolation.

Applications .

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

PoE Version

System 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 Vpc	-		
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 Vpc	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	Environment			
Operating Temperature	-25 °C ~ +75 °C			
Storage Temperature	-30 °C ~ +80 °C			
Humidity	10 ~ 90% RH, Non-condensing			

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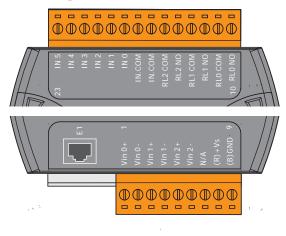
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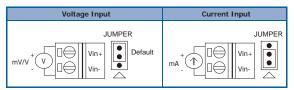
■ I/O Specifications —

Analog Inpu	ıt			
Input Channe			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 Cha	anne	l Configuration	Yes	
Resolution		Normal Mode	16-bit	
Resolution		Fast Mode	12-bit	
Sampling Dat	٥	Normal Mode	10 Samples/Sec. (Total)	
Sampling Rate		Fast Mode	60 Samples/Sec. (Total)	
Accuracy		Normal Mode	+/-0.1%	
Accuracy		Fast Mode	+/-0.	5% or better
Zero Drift			+/-20	uV/°C
Span Drift			+/-25	ppm/°C
Overvoltage F	Prote	ection	240 V	rms
Overcurrent F	Prote	ction	50 m/	A max. at 110 VDC/VAC max.
Input Impeda	nce	Voltage	2 ΜΩ	
Input Impeut	ar icc	Current	124 Ω	2
Common Mod	de Re	ejection	86 dB	Min.
Normal Mode	Reje	ection	100 d	В
Digital Inpu	it/C	ounter		
Input Channe	els		6	
Туре		Wet Contact (Sink or Source)		
On Voltage Level		+10 V _{DC} ~ +50 V _{DC}		
Off Voltage Level			+4 V _{DC} max.	
Input Impedance		10 KΩ, 0.5W		
	Cha	annels	6	
Counters	Max	x. Count	4,294	,967,285 (32-bit)
	Max	x. Input Frequency	100 Hz	
	Min. Pulse Width		5 ms	
Overvoltage Protection		ction	+50 V _{DC}	
Power Relay	y			
Output Chann	nels		3	
Туре			Power Relay, Form A (SPST N.O.)	
Operating Vol	_		250 Vac/30 Vdc	
Max. Load Cu		t	5.0A/channel at 25 °C	
Operate Time		6 ms (Typical)		
Release Time		3 ms	(Typical)	
Electrical Life (Resistive load)		VDE:	5 A @ 250 V _{AC} 30,000 ops (10 ops/minute) at 75°C. 5 A @ 30 V _{DC} 70,000 ops (10 ops/minute) at 75°C.	
LICCO ICUI EIIC	Liectrical Life (Resistive load)			5 A @ 250 V _{AC} /30 V _{DC} 6,000 ops.
		UL:	3 A @ 250 Vac/30 Vpc 100,000 ops.	
Mechanical Life		20,00	0,000 ops. at no load (300 ops./minute).	
Intra-module Isolation, Field-to-Logic		3750 Vpc		
Power-on Value		Yes, Programmable		
Safe Value			Yes, Programmable	
		, -5		

Pin Assignments __



Wire Connections _



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

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

Ordering Information —

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 __

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The state of the s		NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; reguires 24 Voc Input (RoHS)
-	The same	NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; reguires 48 V_{DC} Input (RoHS)
		NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; reguires 24 Voc 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)

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