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





Thermistor Input and DO Module
Features
■ PoE and Regular Ethernet Options
■ 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
☐ Thermistor Input: 8 Channels
DO: 4 Channels
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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.

ET-7005/PET-7005 is used for measuring temperature by the thermistor. It supports many kinds of thermistors and features individual channel configuration which means that eight of its input channels can individually be configured with different kind of thermistor and supports user-defined types by specifying the Steinhart coefficients to add other thermistors, if necessary. Besides, ET-7005/PET-7005 also has 4-channel digital outputs for alarm output with short-circuit protection and overload protection. Adding 2500 Voc intra-module isolation and 110 Voc/Vac overvoltage protection for thermistor on ET-7005/PET-7005 makes itself running with higher reliability.

Applications _

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

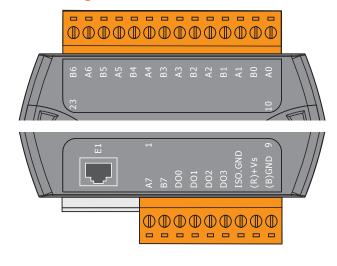
System Specifications _

Models	ET-7005	PET-7005			
Software					
Built-In Web Server	Yes				
Web HMI	Yes				
I/O Pair Connection	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	-	Yes			
2 Way Isolaiton					
Ethernet	1500 Voc	-			
I/O	2500 Vpc	2500 V _{DC}			
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				
Power Requirements					
Reverse Polarity Protectionn	Polarity Protectionn Yes				
Powered from terminal block	Yes, 10 ~ 30 Vpc	Yes, 12 ~ 48 V _{DC}			
Powered from PoE	-	Yes, IEEE 802.3af, Class1			
Consumption	2.1 W	3.0 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	midity 10 ~ 90% RH, non-condensing				

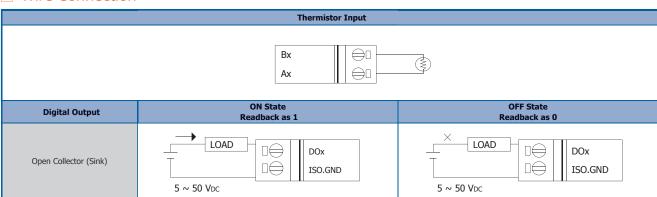
I/O Specifications _____

Thermistor Input		
Input Channels	8 (Differential)	
Sensor Type	Precon ST-A3, Fenwell U, YSI L100, YSI L300, YSI L1000, YSI B2252, YSI B3000, YSI B5000, YSI B6000, YSI B10000, YSI H10000, YSI H30000, User-defined	
Individual Channel Configuration	Yes	
Resolution	16-bit	
Sampling Rate	10 Sample/Sec. (Total)	
Accuracy	+/-0.1% or better	
Zero Drift	+/-20 μV/°C	
Span Drift	+/-25 ppm/°C	
Overvoltage Protection	110 VDC/VAC	
Common Mode Rejection	86 dB	
Normal Mode Rejection	100 dB	
Open Wire Detection	Yes	
Digital Output		
Output Channels	4	
Туре	Isolated Open Collector (Sink)	
Max. Load Current	700 mA/Channel	
Load Voltage	5 Vpc ~ 50 Vpc	
Overvoltage Protection	60 V _{DC}	
Overload Protection	1.4 A	
Short-circuit Protection	Yes	
Power On Value	Yes, Programmable	
Safe Value	Yes, Programmable	

Pin Assignment _____



Wire Connection _



Ordering Information ______

ET-7005 CR	8-channel Thermistor Input and 4-channel Isolated Digital Output Module (RoHS)
PET-7005 CR	8-channel Thermistor Input and 4-channel Isolated Digital Output PoE Module (RoHS)

Accessories _____

	NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; reguires 24 Voc Input (RoHS)
	NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; reguires 48 Voc Input (RoHS)
Comple .	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)