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





Thermocouple 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		
■ Wide Operating Temperature Range: -25 °C ~ +75 °C		
■ I/O Pair Connection		
■ Built-In I/O		
☐ Thermocouple Input: 10 Channels		
□ DO: 6 Channels		
CE FE ROHS		

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 "Z" version is another milestone in the development of thermocouple series and a testament to excellence by ICP DAS. ET-7018Z/PET-7018Z is specifically designed for extremely accurate thermocouple measurement. It features automatic cold-junction compensation for each channel to get temperature outputs consistency and stable temperature output in the field. Current input and voltage input are supported. Another feature is that ten of its input channels can individually be configured with different kinds of analog input. ET-7018Z/PET-7018Z also got open thermocouple detection and many protection mechanisms. The 6 digital output can be set alarm output with Short-circuit protection and overload protection.

Applications _

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

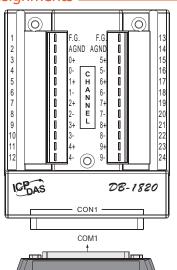
System Specifications _

Models	ET-7018Z	DET 70407		
	E1-7018Z	PET-7018Z		
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 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 Protection	Yes			
Powered from Terminal Block	Yes, 10 ~ 30 V _{DC}	Yes, 12 ~ 48 V _{DC}		
Powered from PoE	-	Yes, IEEE 802.3af, Class1		
Consumption	2.0 W	3.0 W		
Mechanical				
Dimensions (W x L x H)	72 mm x 116 mm x 35 mm			
Installation	DIN-Rail or Wall Mounting			
Environment				
Operating Temperature	-25 °C ~ +75 °C			
Storage Temperature	-30 °C ~ +80 °C			
Humidity	$10\sim90\%$ RH, Non-condensing			

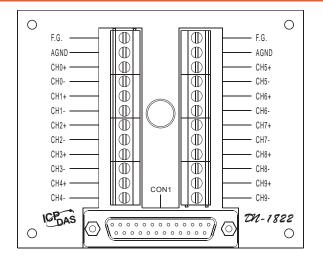
■ I/O Specifications -

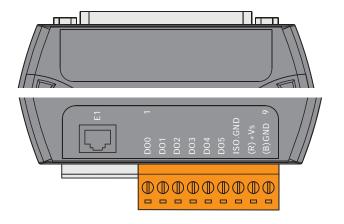
Thermocouple Input				
Input Channels	10 (Differential)			
	+/-15 mV, +/-50 mV, +/-100 mV, +/-500 mV, +/-1 V, +/-2.5 V			
Sensor Type	+/-20 mA, 0 \sim 20 mA, 4 \sim 20 mA (Requires Optional External 125 Ω Resistor)			
	Thermocouple (J, K, T, E, R, S, B, N, C, L, M, LDIN43710)			
Individual Channel Configuration	Yes			
Resolution	16-bit			
Sampling Rate	10 Samples/Sec. (Total)			
Accuracy	+/-0.1% or better			
Zero Drift	+/-0.5 uV/°C			
Span Drift	+/-25 ppm/°C			
Over Voltage Protection	240 V _{rms}			
Input Impedance	>300 kΩ			
Common Mode Rejection	150 dB Min.			
Normal Mode Rejection	100 dB			
Temperature Outputs Consistency	Yes			
Stable Temperature Output in the Field	Yes			
Open Wire Detection	Yes			
Digital Output				
Output Channels	6			
Туре	Isolated Open Collector (Sink)			
Max. Load Current	700 mA/Channel			
Load Voltage	5 Voc ~ 50 Voc			
Overvoltage Protection	60 V _{DC}			
Overload Protection	1.4 A			
Short-circuit Protection	Yes			
Power-on Value	Yes, Programmable			
Safe Value	Yes, Programmable			

Pin Assignments .





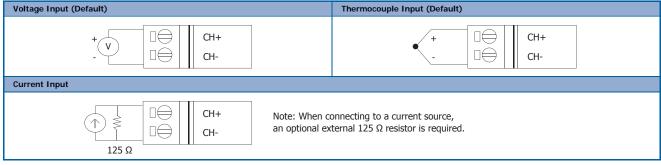




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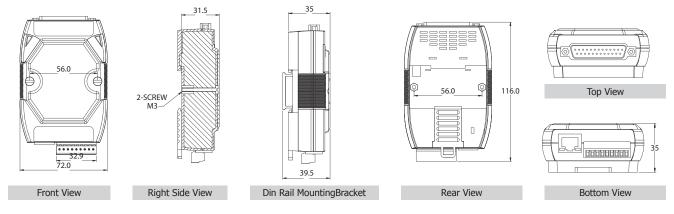


Wire Connections

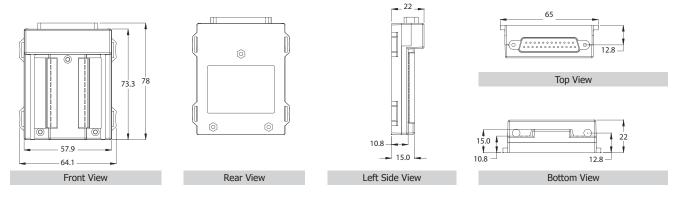


Digital Output	ON State Readback as 1	OFF State Readback as 0
Open Collector (Sink)	LOAD DOX ISO.GND	LOAD DOX ISO.GND

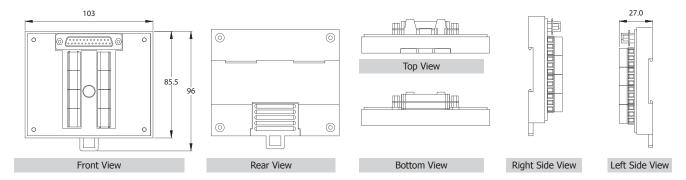
Dimensions (Units: mm)







DN-1822



Ordering Information ______

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ET-7018Z/S CR	10-channel Thermocouple Input with High Voltage Protection and 6-channel Isolated Digital Output Module (RoHS) Include ET-7018Z Module and DB-1820 Daughter Board			
ET-7018Z/S2 CR	10-channel Thermocouple Input with High Voltage Protection and 6-channel Isolated Digital Output PoE Module (RoHS) Include ET-7018Z Module, DN-1822 Daughter Board and 1.8 m Cable			
PET-7018Z/S CR	10-channel Thermocouple Input with High Voltage Protection and 6-channel Isolated Digital Output Module (RoHS) Include PET-7018Z Module and DB-1820 Daughter Board			
PET-7018Z/S2 CR	10-channel Thermocouple Input with High Voltage Protection and 6-channel Isolated Digital Output PoE Module (RoHS) Include PET-7018Z Module, DN-1822 Daughter Board and 1.8 m Cable			
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ET-7018Z/S = ET-7018Z Connects DB-1820 Directly

PET-7018Z/S = PET-7018Z Connects DB-1820 Directly

PET-7018Z/S + CD-25015 + 4PAPP-006-G



PET-7018Z/S + CD-2518D

Accessories

