



Introduction .

The ET-7019/PET-7019 features an extremely excellent protection mechanism where overvoltage protection is up to 240 Vrms. It has wider input range for voltage compared to ET-7017. ET-7019/PET-7019 measures voltage from +/-15 mV \sim +/-10 V. Its input type also includes current and thermocouple. An intuitive design is built in this model, measuring current or voltage simply by a jumper. An external resistor is no longer needed. Eight of its inputs channels can individually be configured with different kinds of analog input. Moreover, the ET-7019/PET-7019 also got open thermocouple detection and many protection mechanisms. The 4 digital output can be set as alarm output with Short-circuit protection and overload protection.

System Specifications _____

Models	ET-7019	PET-7019	
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		
PoE	- Yes		
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 VDC	-	
I/O	2500 VDC	2500 VDC	
EMS Protection			
ESD (IEC 61000-4-2)	\pm 4 kV Contact for Each Terminal and \pm 8 kV Air for Random Point		
EFT (IEC 61000-4-4)	±4 kV for Power Line		
Power			
Reverse Polarity Protection	Yes		
Powered from Terminal Block	Yes, 10 ~ 30 VDC	Yes, 12 ~ 48 VDC	
Powered from PoE	-	Yes, IEEE 802.3af, Class1	
Power Output	- · ·		
Consumption	2.6 W (Max.)	2.9 W (Max.)	
Mechanical			
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm		
Installation	DIN-Rail or Wall Mounting		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ~ +80°C		
Humidity	10 ~ 90% RH, Non-condensing		

I/O Specifications _____

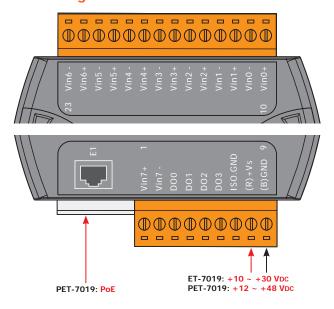
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Analog Inpu	Analog Input				
Channels		8 (Differential)			
Sensor Type		+/-15 mV, +/-50 mV, +/-100 mV, +/-150 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, +/-20 mA, 0~20 mA, 4~20 mA			
		Thermocouple (J, K, T, E, R, S, B, N, C, L, M, , and L _{DIN43710})			
Individual Channel Configuration		Yes			
Resolution		16-bit			
Sampling Rate		10 samples/Second total			
Accuracy		+/-0.1 % or better			
Zero Drift		+/-10 μV/°C			
Span Drift		+/-25 ppm/°C			
Overvoltage P	rotection	240 Vrms			
Input Imped-	Voltage	>1 MΩ			
ance	Current	125 Ω			
Common Mode Rejection		86 dB Min.			
Normal Mode Rejection		100 dB			
Open Wire Detection		Yes			
Virtual Channel to Channel Isolation		+/-400 V _{DC}			
Digital Outp	ut				
Channels		4			
Туре		Isolated Open Collector			
Sink/Source (NPN/PNP)		Sink			
Max. Load Cu	rrent	700 mA/Channel			
Load Voltage		5 VDC ~ 50 VDC			
Overvoltage Protection		60 VDC			
Overload Protection		1.4 A			
Short-circuit Protection		Yes			
Power-on Value		Yes, Programmable			
Safe Value		Yes, Programmable			
Note: We reco	ommend to choose ET-7	7018Z for accurate thermocouple measurement.			

Pin Assignments _____



Wire Connections _____

Thermocouple Input	Voltage Input	Current Input	
+ □⊖ Vinx+ Default	mV/V + V D Default	JUMPER mAVinx+ Vinx-	
Digital Output	ON State Readback as 1	OFF State Readback as 0	
Open Collector (Sink)	LOAD DOX ISO.GND	× LOAD DOx □ UOX ISO.GND	

Ordering Information _____

ET-7019 CR	Ethernet I/O Module with 8-channels universal AI, 4-channels DO (RoHS)
PET-7019 CR	PoE Ethernet I/O Module with 8-channels universal AI, 4-channels DO (RoHS)