



■ Features
■ Built-in Web Server
■ Web HMI
■ Support for both Modbus TCP and Modbus UDP Protocols
■ Communication Security
■ Dual Watchdog
■ Wide Operating Temperature Range: -25 ~ +75°C
■ I/O Pair Connection
■ Built-in I/O
☐ AI: 8 Channels with 240 V _{rms} Overvoltage Protection
□ DO: 4 Channels
CE FC KHS

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.

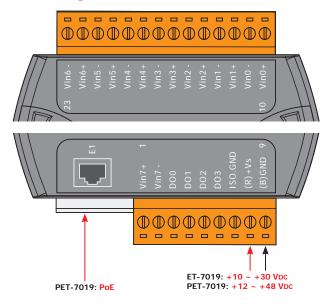
■ System Specifications _____

Models	ET-7019	PET-7019			
Software					
Built-in Web Server	Yes				
Web HMI	Yes				
I/O Pair Connection	Yes				
Communication	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)	±4 kV Contact for Each Terminal and ±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				

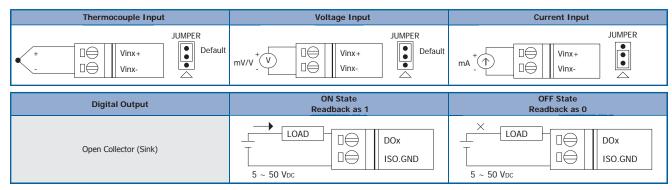
■ I/O Specifications _____

Analog Inpu	t		
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 Protection		240 Vrms	
Input Impedance	Voltage	>1 MΩ	
	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 Current		700 mA/Channel	
Load Voltage		5 VDC ~ 50 VDC	
Overvoltage Protection		60 V _{DC}	
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 __



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)