


ET-7017-10
PET-7017-10

(PoE) Ethernet I/O Module with 10/20-ch AI


ET-7217-10
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■ Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Security
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring
- Dual Watchdog
- I/O Pair Connection
- Built-in I/O
- AI: 10/20 Channels with 240 Vrms Overvoltage Protection



■ Introduction

The ET-7017-10/PET-7017-10/ET-7217-10/PET-7217-10 is a module with 10-channel differential or 20-channel single-ended analog inputs. It provides programmable input range on all analog channels (+/-150 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, +/-20 mA, 0 ~ 20 mA and 4 ~ 20 mA). Each analog channel is allowed to configure an individual range and has 240 Vrms high overvoltage protection. Each analog input can be programmed to accept voltage or current as input depending upon the position of the corresponding jumper. The sampling rate of ET-7017-10/PET-7017-10/ET-7217-10/PET-7217-10 has two modes; fast mode and normal mode for your consideration. ET-7017-10/PET-7017-10/ET-7217-10/PET-7217-10 also has qualification for 4 kV ESD protection as well as 3000 VDC intra-module isolation.

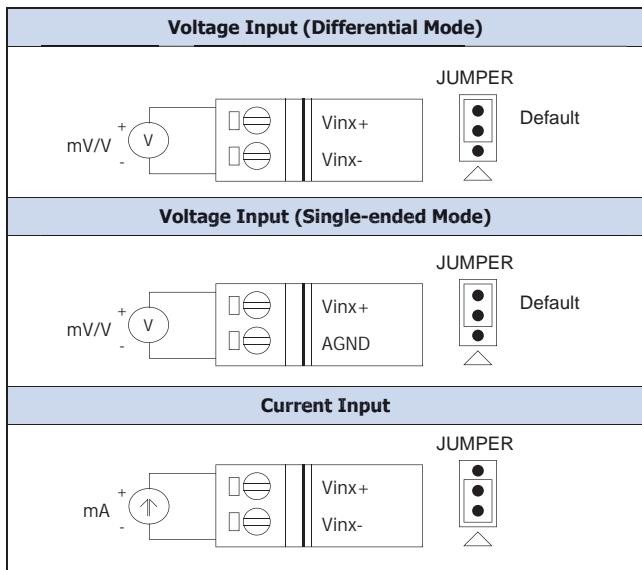
■ System Specifications

Model	ET-7017-10	PET-7017-10	ET-7217-10	PET-7217-10
Software				
Built-in Web Server		Yes		
CPU Module				
Watchdog Timer		Module, Communication (Programmable)		
2-Way Isolation				
Ethernet	1500 VDC	-	1500 VDC	-
I/O		2500 VDC		
EMS Protection				
EFT (IEC 61000-4-4)	±4 kV for Power Line		±2 kV for Power Line	
ESD (IEC 61000-4-2)		±4 kV Contact for Each Terminal ±8 kV Air for Random Point		
Surge (IEC 61000-4-5)	±0.5 kV for Power Line		±2 kV for Power Line	
LED Indicators				
Status	Run, Ethernet	Run, Ethernet, PoE	Run, Ethernet, I/O	Run, Ethernet, I/O, PoE
Ethernet				
Ports	1 x RJ-45, 10/100 Base-TX		2 x RJ-45, 10/100 Base-TX, Swtich Ports	
PoE	-	Yes	-	Yes
LAN bypass	-			Yes
Security		ID, Password and IP Filter		
Protocol		Modbus TCP, Modbus UDP		
Power				
Reverse Polarity Protection		Yes		
Consumption	2.8 W (max.)	3.3 W (max.)	3.6 W (max.)	3.8 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +30 VDC		+12 to +48 VDC	
Mechanical				
Dimensions (mm)	72 x 123 x 35 (W x L x H)		76 x 120 x 38 (W x L x H)	
Installation		DIN-Rail mounting		
Environment				
Operating Temperature		-25 to +75°C		
Storage Temperature		-30 to +80°C		
Humidity		10 to 90% RH, Non-condensing		

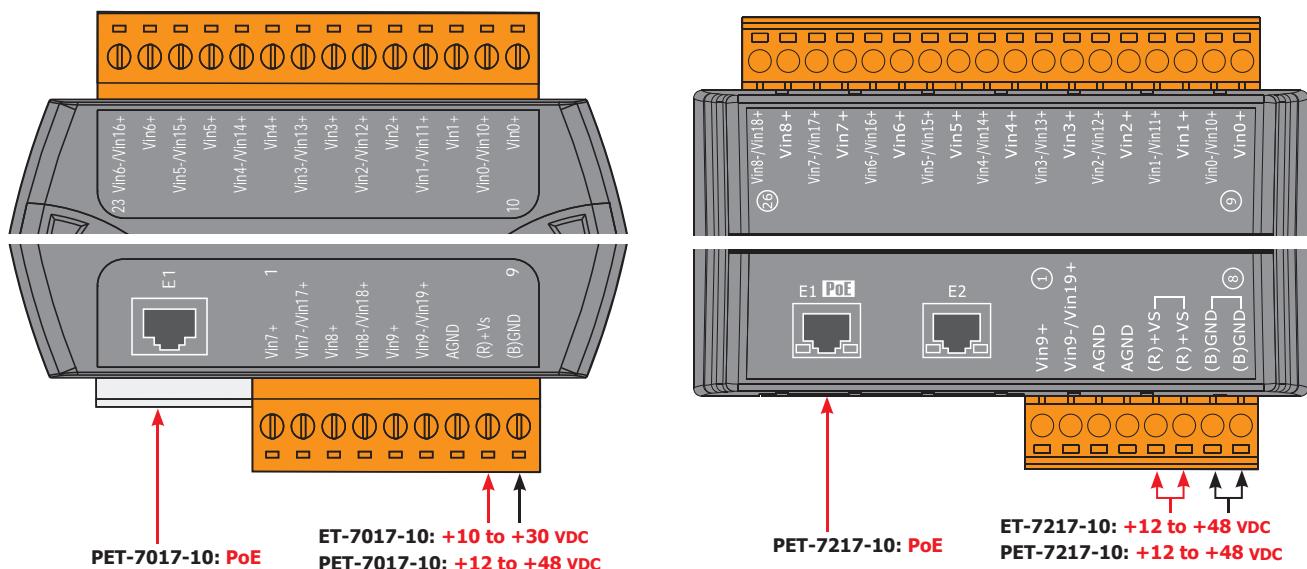
I/O Specifications

Analog Input	
Channels	10 differential or 20 single-ended (Note1), software selectable
Type	Voltage, Current
Range	±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V ±20 mA, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)
Resolution	16-bit
Accuracy	Normal Mode ±0.1%
	Fast Mode ±0.5% or better
Sampling Rate	Normal Mode 10 Hz (total channels)
	Fast Mode 50 Hz (total channels)
Input Impedance	Voltage 2 MΩ (Differential), 1 MΩ (Single-ended)
	Current 125 Ω
Common Voltage Protection	±200 VDC
Overvoltage Protection	Differential 240 Vrms
	Single-ended 150 Vrms
Overcurrent Protection	50 mA at 110 VDC (max.)
Individual Channel Configuration	Yes
Open Wire Detection	For 4 to 20 mA only
Virtual Channel to Channel Isolation	±400 VDC
Note1: Differential mode can be used for voltage input and current input. Single-Ended mode can be used for voltage input only.	

Wire Connections



Pin Assignments



Ordering Information

ET-7017-10 CR	Ethernet I/O Module with 10/20-ch AI (RoHS)
PET-7017-10 CR	PoE Ethernet I/O Module with 10/20-ch AI (RoHS)
ET-7217-10 CR	Ethernet I/O Module with 2-port Ethernet Switch and 10/20-ch AI (RoHS)
PET-7217-10 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch and 10/20-ch AI (RoHS)