



ET-2217 **PET-2217**

Ethernet I/O Module with 8/16-ch AI

Features

- Web Server for Configuration
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- 2-port Ethernet Switch (LAN bypass) for Daisy-chain Wiring
- Supports Dual-watchdog
- I/O Pair Connection (Push and Pull)
- Built-in I/O
  - ☐ 8 Differential or 16 Single-ended AI

Introduction

(P)ET-2217 is an 8-channel differential or 16-channel single-ended analog input module. All analog input channels can be individually configured with input ranges including ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, 0 ~ 20 mA, 4 ~ 20 mA, and ±20 mA. The module can be set as voltage or current inputs via the DIP switch, providing up to 120 V_{DC} overvoltage protection, as well as 50 mA overcurrent protection at 110 V_{DC}/V_{AC}.

The sampling rate of (P)ET-2117 can be set to either fast mode (200 Hz) or normal mode (20 Hz) for recording voltage and current values. The module provide EMS (EFT/ESD/Surge) protection and 3000 V_{DC} I/O isolation to enhance noise protection capabilities in industrial environments.

System Specifications

Model	ET-2217	PET-2217
Software		
Built-in Web Server	Yes	
CPU Module		
CPU	32-bit ARM	
Watchdog Timer	Module, Communication (Programmable)	
Isolation		
2-way Isolation	Ethernet: 1500 VDC, I/O: 3000 V_{DC}	I/O: 3000 V_{DC}
EMS Protection		
EFT (IEC 61000-4-4)	±4 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)	±2 kV for Power Line	
LED Indicators		
Status	Run, Ethernet	Run, Ethernet, PoE
Ethernet		
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports	
PoE	-	Yes
LAN bypass	Yes	
Access Control	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, MQTT, SNMP V2c	
Power		
Reverse Polarity Protection	Yes	
Consumption	3.3 W (max.)	3.5 W (max.)

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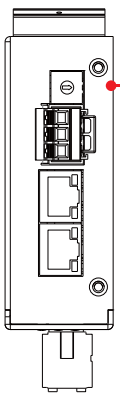
Model	ET-2217	PET-2217
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 ~ +48 VDC	
Mechanical		
Casing	Metal	
Dimensions (mm)	33 x 127 x 117 (W x L x H)	
Installation	DIN-Rail Mounting / Wall mounting (Optional ASO-0015)	
Environment		
Operating Temperature	-25 ~ +75 ℃	
Storage Temperature	-40 ~ +80 ℃	
Humidity	10 ~ 90% RH, Non-condensing	

I/O Specifications

Model		ET-2217	PET-2217
Analog Input			
Channels		8 Differential or 16 Single-ended (Software selectable - see **Note 1**)	
Type		Voltage, Current (DIP switch selectable)	
Range	Voltage	±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V	
	Current	±20 mA, 0 ~ +20 mA, +4 ~ +20 mA	
Resolution		16-bit	
Accuracy		±0.1% of FSR	
Sampling Rate	Normal Mode	20 Hz (total channels)	
	Fast Mode	200 Hz (total channels)	
Input Impedance	Voltage	2 MΩ (Differential), 1 MΩ (Single-ended)	
	Current	137 Ω (Differential)	
Common Voltage Protection		±200 VDC	
Overvoltage Protection		120 VDC	
Overcurrent Protection		50 mA at 110 VDC (max.)	
Individual Channel Configuration		Yes	

Note 1: Differential wiring can be used for both voltage input and current input.
Single-ended wiring can only be used for voltage input.

Appearance



(Only PET series support PoE)

Port	Description	
SW1	0: Run 1-E: Run IP F: Init	User specified IP or DHCP Default IP, 192.168.255.1 - 14) Factory default, Firmware Update
PWR	F.G. GND + Vs	
ETH1	PoE Link/Act	
ETH2	Link/Act	

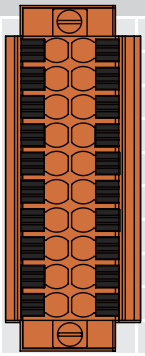
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Pin Assignments

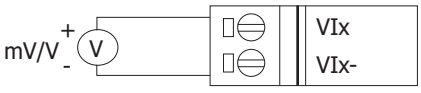
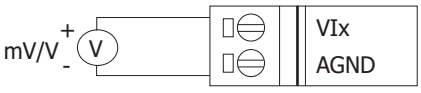
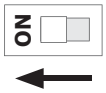
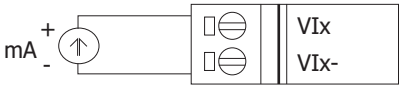


Pin Assignment	SW2	Pin Assignment
I0		V0
I1		V1
I2		V2
I3		V3
I4		V4
I5		V5
I6		V6
I7		V7

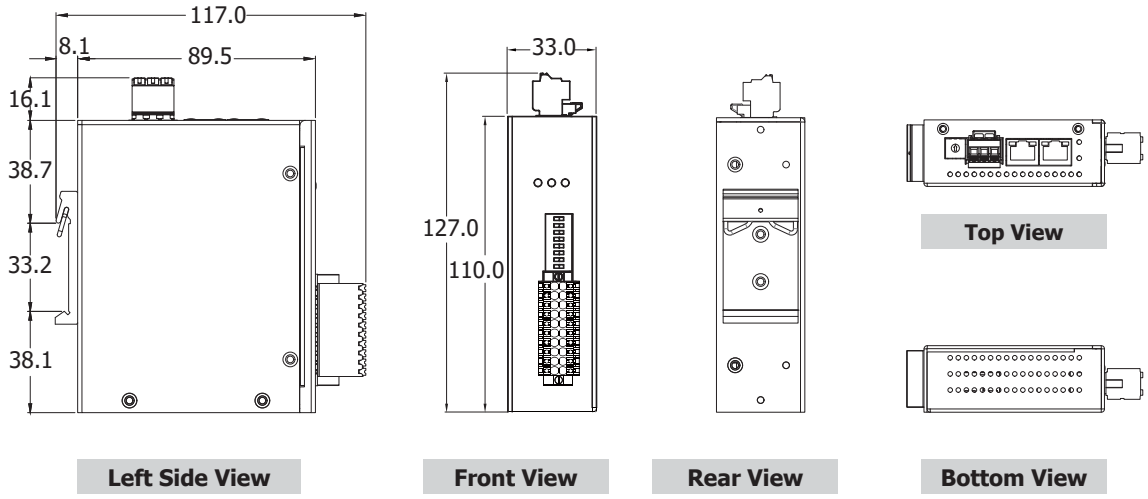
Pin Assignment	Terminal No.		Pin Assignment
VI 0+	01	02	0-/8
VI 1+	03	04	1-/9
VI 2+	05	06	2-/10
VI 3+	07	08	3-/11
VI 4+	09	10	4-/12
VI 5+	11	12	5-/13
VI 6+	13	14	6-/14
VI 7+	15	16	7-/15
N/A	17	18	AGND
N/A	19	20	AGND



Wire Connections

SW2	Voltage Input (Differential Mode)	Voltage Input (Single-ended Mode)
 **OFF: Voltage**		
Current Input (Differential Mode)		
 **ON: Current**		

Dimensions (Units: mm)

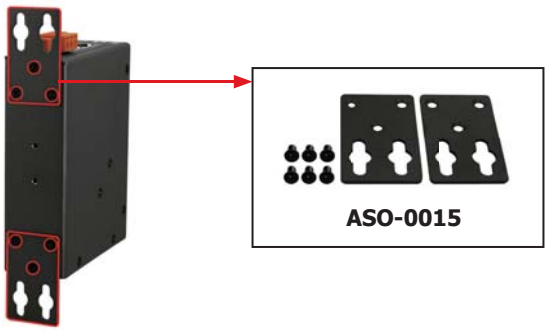


Ordering Information

ET-2217 CR	Ethernet I/O Module with 2-port Ethernet Switch, 8/16-ch AI (RoHS)
PET-2217 CR	PoE I/O Module with 2-port Ethernet Switch, 8/16-ch AI (RoHS)

Accessories

ASO-0015 CR	Wall Mount Kit (W: 28 mm) (RoHS)



(P)ET-2000+ASO-0015

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