

ET-7015
PET-7015

ET-7215
PET-7215

Ethernet I/O Module with 7-ch RTD Input

Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Access Control
- 2-port Ethernet Switch (LAN bypass) for Daisy-chain Wiring
- Dual Watchdog
- Built-in I/O
  - RTD Input: 7 Channels

Introduction

The ET-7015/PET-7015/ET-7215/PET-7215 is specifically designed for long-distance RTD measurement. It features automatic compensation for three-wire RTD regardless of the length of wires and provides open-wire detection for RTD measurement. The ET-7015/PET-7015/ET-7215/PET-7215 offers 7 channels, each of which could be connected with different kinds of RTD (Pt100, Pt1000, Ni120, Cu100, Cu1000). Also, the ET-7015/PET-7015/ET-7215/PET-7215 is fully RoHS-compliant and has qualification for 4 kV ESD protection as well as 2500 VDC intra-module isolation.

System Specifications

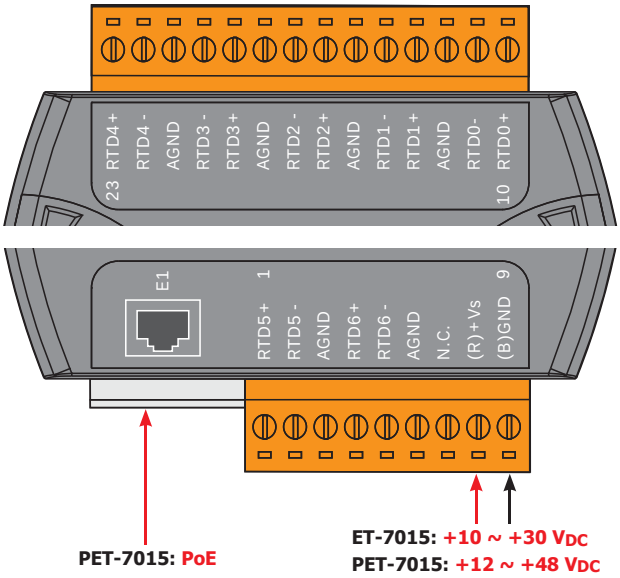
Model	ET-7015	PET-7015	ET-7215	PET-7215
Software				
Built-in Web Server	Yes			
CPU Module				
Watchdog Timer	Module, Communication (Programmable)			
2-Way Isolation				
Ethernet	1500 VDC	-	1500 VDC	-
I/O	2500 VDC		3000 VDC	
EMS Protection				
EFT (IEC 61000-4-4)	±4 kV for Power Line		±2 kV for Power 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	
Access Control	ID, Password and IP Filter			
Protocol	Modbus TCP, Modbus UDP			
Power				
Reverse Polarity Protection	Yes			
Consumption	2.2 W (max.)	2.6 W (max.)	3.0 W (max.)	3.2 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 ~ +30 VDC	+12 ~ +48 VDC		
Mechanical				
Dimensions (mm)	72 x 123 x 35 (W x L x H)		76 x 120 x 42 (W x L x H)	
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-30 ~ +80 °C			
Humidity	10 ~ 90% RH, Non-condensing			

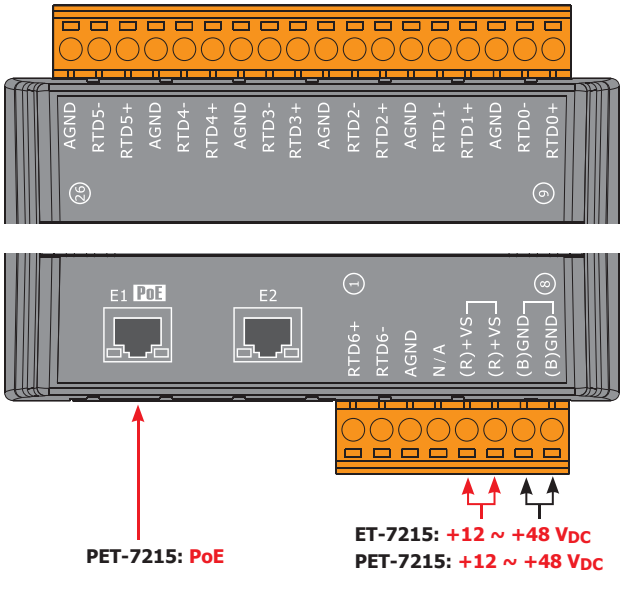
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I/O Specifications

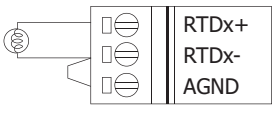
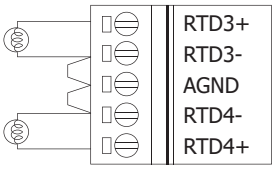
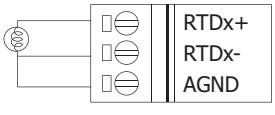
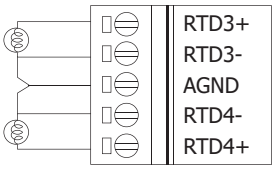
Analog Input	
Channels	7 (Differential)
Type	RTD (2-wire, 3-wire)
Sensor Type	Pt100, Pt1000, Ni120, Cu100, Cu1000
Resistance Measurement	3.2 KΩ (max.)
Resolution	16-bit
Accuracy	±0.05%
Sampling Rate	12 Hz (total channels)
Input Impedance	>1M Ω
Overvoltage Protection	+120 V_{DC}
Individual Channel Configuration	Yes
3-wire RTD Lead Resistance Elimination	Yes
Open Wire Detection	Yes

Pin Assignments





Wire Connections

Open Collector (Sink)	CH0, 1, 2, 5 and 6	CH3 and CH4
2-wire of RTD		
3-wire of RTD		

Ordering Information

ET-7015 CR	Ethernet I/O Module with 7-ch RTD Input (RoHS)
PET-7015 CR	PoE I/O Module with 7-ch RTD Input (RoHS)
ET-7215 CR	Ethernet I/O Module with 2-port Ethernet Switch, 7-ch RTD Input (RoHS)
PET-7215 CR	PoE I/O Module with 2-port Ethernet Switch, 7-ch RTD Input (RoHS)

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