ET-2261

PET-2261

Ethernet I/O Module with 10-ch Power Relay

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
  - 10-ch Relay Output (Form A)
- LED Display to Indicate the I/O Status

Introduction

The (P)ET-2261 provides 10 Form A electromechanical Relays Output channels. With 2 Ethernet ports, the (P)ET-2261 allows daisy chain connection which permits the flexibility in locating devices, eases installation and lowers infrastructure costs. It features 8 kV ESD protection, 4 kV EFT protection, 3 kV surge, and 3000 VDC I/O isolation to enhance noise protection capabilities in industrial environments.

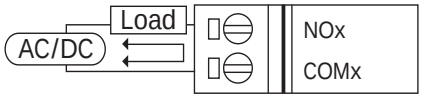
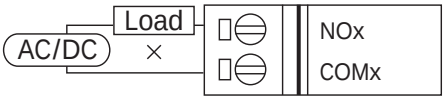
System Specifications

Model	ET-2261	PET-2261
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 VDC	I/O: 3000 VDC
EMS Protection		
EFT (IEC 61000-4-4)	±4 kV for Power Line	
ESD (IEC 61000-4-2)	±8 kV Contact for Each Terminal, ±16 kV Air for Random Point	
Surge (IEC 61000-4-5)	±3 kV for Power Line	
LED Indicators		
Status	Run, Ethernet, I/O	Run, Ethernet, I/O, PoE
Ethernet		
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports	
LAN bypass	Yes	
PoE	-	Yes
Access Control	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, MQTT, and SNMP V2c	
Power		
Reverse Polarity Protection	Yes	
Consumption	3.8 W (max.)	4.6 W (max.)
Powered from PoE	-	IEEE 802.3af, Class2
Powered from Terminal Block	+10 to +30 VDC	+10 to +48 VDC
Mechanical		
Casing	Plastic	
Dimensions (mm)	33 x 126 x 108 (W x L x H)	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +80 °C	
Humidity	10 ~ 90% RH, Non-condensing	

I/O Specifications

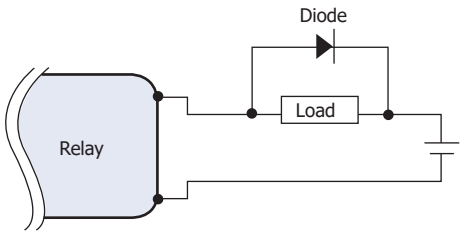
Model	ET-2261	PET-2261
Power Relay		
Channels	10	
Type	Power Relay, Form A (SPST N.O.)	
Contact Rating	5 A @ 250 VAC/24 VDC (Resistive Load)	
Operate Time	10 ms (max.)	
Release Time	5 ms (max.)	
Electrical Endurance	10^5 ops.	
Mechanical Endurance	2 × 10^7 ops.	
Power-on Value	Programmable	
Safe Value	Programmable	

Wire Connections

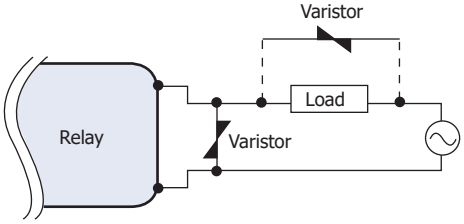
Power Relay	Relay Output
ON State Readback as 1	
OFF State Readback as 0	

Note:
When inductive loads are connected to the relays, a large counter electromotive force may occur when the relay actuates because of the energy stored in the load. These flyback voltages can severely damage the relay contacts and greatly shorten the relay life. Limit these flyback voltages at your inductive load by installing a flyback diode for DC loads or a metal oxide varistor for AC loads.

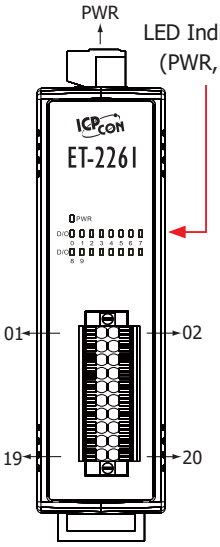
for DC loads



for AC loads

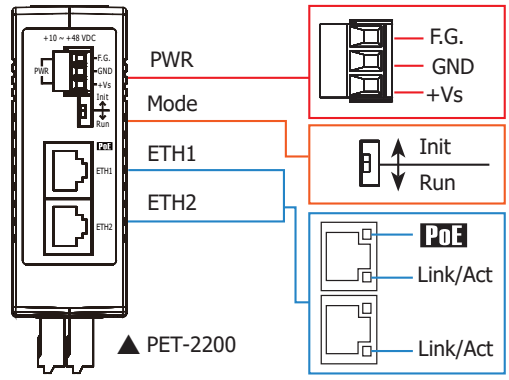


Pin Assignments



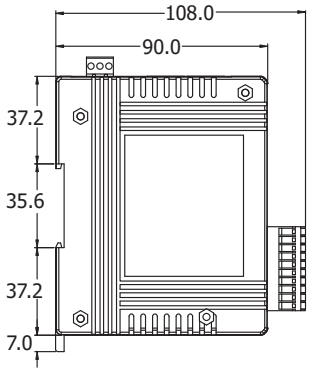
Pin Assignment	Terminal No.		Pin Assignment
NO0	01	02	NO5
COM0	03	04	COM5
NO1	05	06	NO6
COM1	07	08	COM6
NO2	09	10	NO7
COM2	11	12	COM7
NO3	13	14	NO8
COM3	15	16	COM8
NO4	17	18	NO9
COM4	19	20	COM9

20-pin Connector

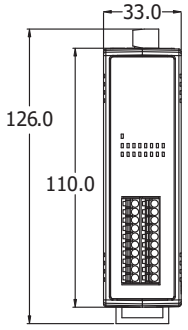


Top View

Dimensions (Units: mm)



Left Side View



Front View

Ordering Information

ET-2261 CR	Ethernet I/O Module with 2-port Ethernet Switch, 10-ch Power Relay (RoHS)
PET-2261 CR	PoE I/O Module with 2-port Ethernet Switch, 10-ch Power Relay (RoHS)