**ET-7060**
**PET-7060**

**ET-7260**
**PET-7260**

Ethernet I/O Module with 6-ch DI, 6-ch Power Relay

## 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
- I/O Pair Connection
- Built-in I/O
  - DI/Counter: 6 Channels
  - Power Relay: 6 Channels

## Introduction

The ET-7060/PET-7060/ET-7260/PET-7260 provides 6 wet contact digital input channels and 6 form A electromechanical relays. It features optical isolation for 3000 VDC of transient overvoltage protection and doesn't have channel-to-channel isolation. Each input channel can be used as a 32-bit counter. The power-on value and safe value of relay are programmable.

**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.

## System Specifications

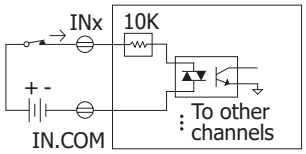
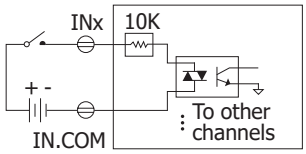
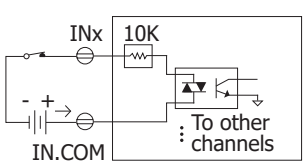
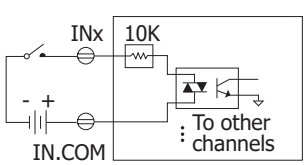
| Model | ET-7060 | PET-7060 | ET-7260 | PET-7260 |
|---|---|---|---|---|
| **Software** | | | | |
| Built-in Web Server | Yes | | | |
| **CPU Module** | | | | |
| Watchdog Timer | Module, Communication (Programmable) | | | |
| **2-Way Isolation** | | | | |
| Ethernet | 1500 VDC | - | 1500 VDC | - |
| I/O | 3000 VDC | | | |
| **EMS Protection** | | | | |
| EFT (IEC 61000-4-4) | ±2 kV for Power Line | | ±4 kV for Power Line | |
| ESD (IEC 61000-4-2) | ±4 kV Contact for Each Terminal<br>±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 | 2.9 W (max.) | 2.8 W (max.) | 3.6 W (max.) | 3.8 W (max.) |
| Powered from PoE | - | IEEE 802.3af | - | IEEE 802.3af |
| Powered from Terminal Block | +10 ~ +30 VDC | +12 ~ +48 VDC | | |

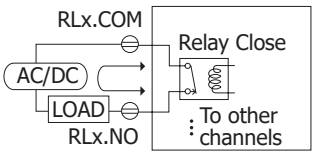
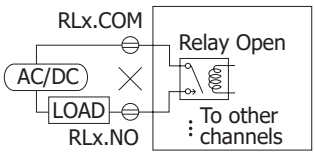
| Model | ET-7060<br>PET-7060 | ET-7260<br>PET-7260 |
|---|---|---|
| **Mechanical** | | |
| Dimensions (mm) | 72 x 123 x 35 (W x L x H) | 76 x 120 x 42 (W x L x H) |
| Installation | DIN-Rail Mounting | |
| **Environment** | | |
| Operating Temperature | -25 ~ +75℃ | |
| Storage Temperature | -30 ~ +80℃ | |
| Humidity | 10 ~ 90% RH, Non-condensing | |

## I/O Specifications

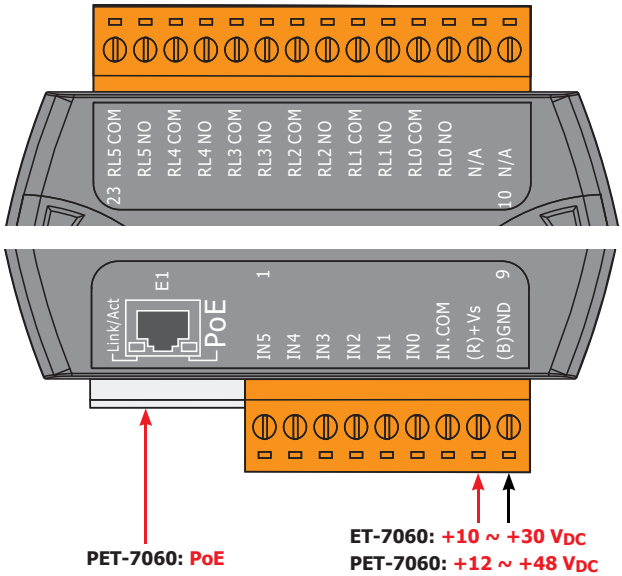
| Model | ET-7060<br>PET-7060 | ET-7260<br>PET-7260 |
|---|---|---|
| **Digital Input/Counter** | | |
| Channels | 6 | |
| Type | Wet Contact | |
| Sink/Source (NPN/PNP) | Sink/Source | |
| ON Voltage Level | +10 ~ +50 $V_{DC}$ | |
| OFF Voltage Level | +4 $V_{DC}$ (max.) | |
| Max. Counts | 4,294,967,295 (32-bit) | |
| Frequency | 500 Hz | 100 Hz |
| Min. Pulse Width | 1 ms | 5 ms |
| Input Impedance | 10 kΩ | |
| Overvoltage Protection | +70 $V_{DC}$ | |
| **Relay Output** | | |
| Channels | 6 | |
| Type | Power Relay, Form A (SPST N.O.) | |
| Contact Rating | 5 A @ 250 $V_{AC}$/24 $V_{DC}$ (Resistive Load) | |
| Operate Time | 10 ms (max.) | |
| Release Time | 5 ms (max.) | |
| Electrical Endurance | $10^5$ ops. | |
| Mechanical Endurance | $2 \times 10^7$ ops. | |
| Power on Value | Programmable | |
| Safe Value | Programmable | |

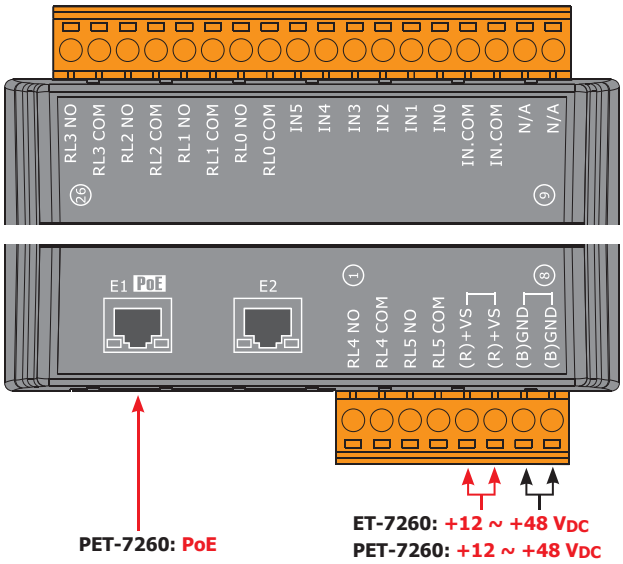
## Wire Connections

| Digital Input/Counter | Readback as 1 | Readback as 0 |
|---|---|---|
| Sink | +10 ~ +50 $V_{DC}$ | OPEN or <4 $V_{DC}$ |
| |  |  |
| Source | +10 ~ +50 $V_{DC}$ | OPEN or <4 $V_{DC}$ |
| |  |  |

| Power Relay | ON State<br>Readback as 1 | OFF State<br>Readback as 0 |
|---|---|---|
| Relay Output |  |  |

## Pin Assignments




## Ordering Information

| | |
|---|---|
| **ET-7060 CR** | Ethernet I/O Module with 6-ch DI, 6-ch Power Relay (RoHS) |
| **PET-7060 CR** | PoE I/O Module with 6-ch DI, 6-ch Power Relay (RoHS) |
| **ET-7260 CR** | Ethernet I/O Module with 2-port Ethernet Switch, 6-ch DI, 6-ch Power Relay (RoHS) |
| **PET-7260 CR** | PoE I/O Module with 2-port Ethernet Switch, 6-ch DI, 6-ch Power Relay (RoHS) |