




**ET-7065** **PET-7065**

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

## Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Access Control
- Dual Watchdog
- I/O Pair Connection
- Built-in I/O
  - DI/Counter: 6 Channels
  - PhotoMOS Relay: 6 Channels

## Introduction

The ET-7065/PET-7065 provides 6 wet contact digital input channels and 6 form A PhotoMOS relays. It features optical isolation for 3000 Vrms 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 PhotoMOS relay are programmable. It can safely be used in applications where hazardous voltages are present.

## System Specifications

| Model | ET-7065 | PET-7065 |
|---|---|---|
| **Software** | | |
| Built-in Web Server | Yes | |
| **CPU Module** | | |
| Watchdog Timer | Module, Communication (Programmable) | |
| **2-Way Isolation** | | |
| Ethernet | 1500 $V_{DC}$ | - |
| I/O | 3000 $V_{DC}$ | |
| **EMS Protection** | | |
| EFT (IEC 61000-4-4) | ±2 kV for Power Line | |
| ESD (IEC 61000-4-2) | 4 kV Contact for Each Terminal | |
| **LED Indicators** | | |
| Status | Run, Ethernet | Run, Ethernet, PoE |
| **Ethernet** | | |
| Ports | 1 x RJ-45, 10/100 Base-TX | |
| PoE | - | Yes |
| Access Control | ID, Password and IP Filter | |
| Protocol | Modbus TCP, Modbus UDP | |
| **Power** | | |
| Reverse Polarity Protection | Yes | |
| Consumption | 2.9 W (max.) | 3.0 W (max.) |
| Powered from PoE | - | IEEE 802.3af |
| Powered from Terminal Block | +10 ~ +30 $V_{DC}$ | +12 ~ +48 $V_{DC}$ |
| **Mechanical** | | |
| Dimensions (mm) | 72 x 123 x 35 (W x L x H) | |
| Installation | DIN-Rail Mounting | |

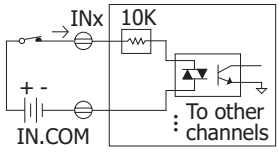
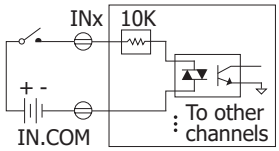
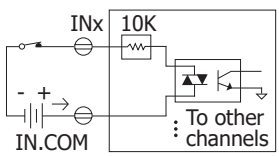
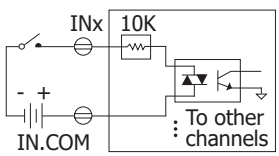
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| Environment | |
|---|---|
| Operating Temperature | -25 ~ +75 °C |
| Storage Temperature | -30 ~ +80 °C |
| Humidity | 10 ~ 90% RH, Non-condensing |

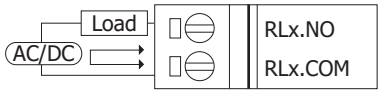
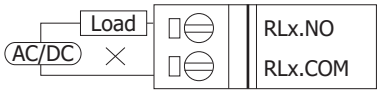
## I/O Specifications

| Model | ET-7065 | PET-7065 |
|---|---|---|
| **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 | |
| Min. Pulse Width | 1 ms | |
| Input Impedance | 10 kΩ | |
| Overvoltage Protection | +70 $V_{DC}$ | |
| **Relay Output** | | |
| Channels | 6 | |
| Type | PhotoMOS Relay, Form A | |
| Contact Rating | 60V/1.0A<br>(Operating Temperature -25 ~ +40°C )<br>60V/0.8A<br>(Operating Temperature +40 ~ +60°C )<br>60V/0.7A<br>(Operating Temperature +60 ~ +75°C ) | |
| Leakage Current | 1 μA | |
| Operate Time | 2.0 ms (max.) | |
| Release Time | 0.3 ms (max.) | |
| Power on Value | Programmable | |
| Safe Value | Programmable | |

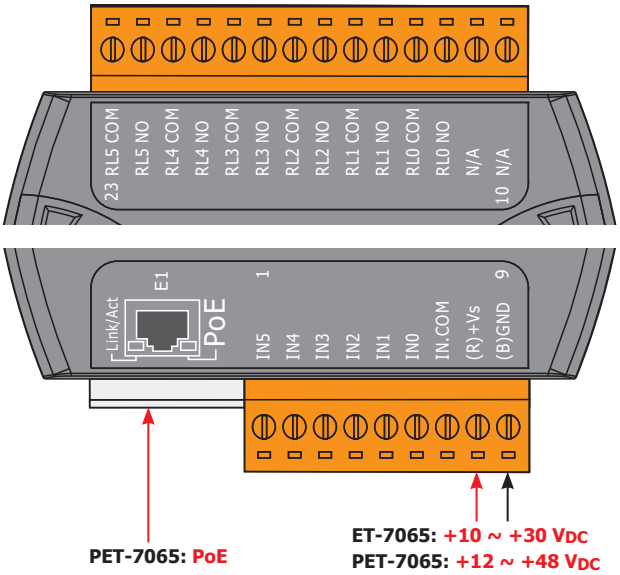
## Wire Connections

| 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 $V_{DC}$ |
| |  |  |

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| PhotoMOS Relay | ON State<br>Readback as 1 | OFF State<br>Readback as 0 |
|---|---|---|
| Form A<br>Relay Contact |  |  |

## Pin Assignments




## Ordering Information

| | |
|---|---|
| **ET-7065 CR** | Ethernet I/O Module with 6-ch DI, 6-ch PhotoMOS Relay (RoHS) |
| **PET-7065 CR** | PoE I/O Module with 6-ch DI, 6-ch PhotoMOS Relay (RoHS) |

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