ICP DAS

PoE

ET-7065   PET-7065

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

Features

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

CE   UKCA   FC   RoHS

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.
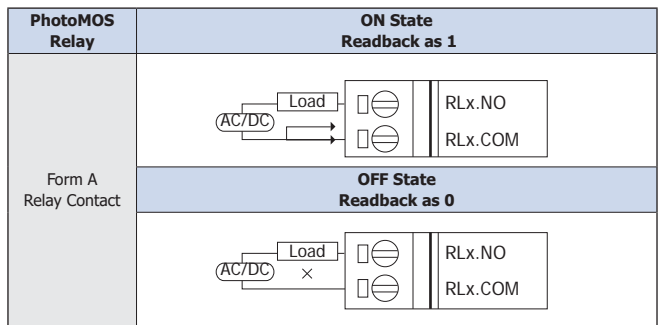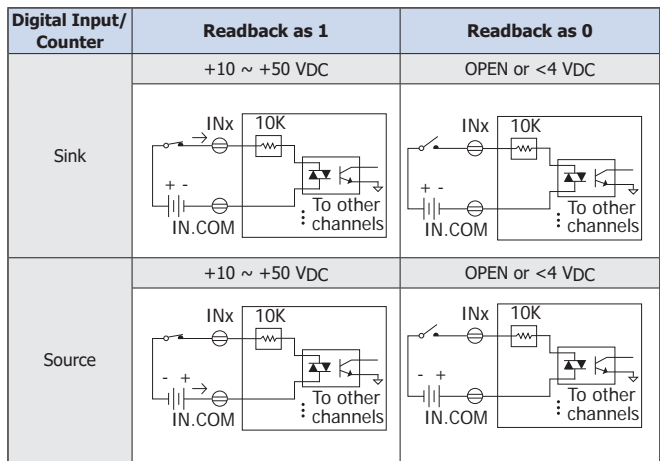
System Specifications

Model	ET-7065	PET-7065
Software		
Built-in Web Server	Yes	
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
2-Way Isolation		
Ethernet	1500 VDC	-
I/O	3000 Vrms	3000 Vrms
EMS Protection		
EFT (IEC 61000-4-4)	±2 kV for Power	
ESD (IEC 61000-4-2)	4 kV Contact for Each Terminal	
LED Indicators		
Status	Run, Link/Ac	Run, Ethernet, PoE
Ethernet		
Ports	1 x RJ-45, 10/100 Base-TX	
PoE	-	Yes
Security	ID, Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP	
Power		
Reverse Polarity Protection	Yes	
Consumption	2.5 W (max.)	3.0 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +30 VDC	+12 to +48 VDC
Mechanical		
Dimensions (mm)	72 x 123 x 35 (W x L x H)	
Installation	DIN-Rail mounting	
Environment		
Operating Temperature	-25 to +75°C	
Storage Temperature	-30 to +80°C	
Humidity	10 to 90% RH, Non-condensing	

🗀 I/O Specifications

Digital Input/Counter

Channels	6
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	+10 to +50 VDC
OFF Voltage Level	+4 VDC (max.)
Max. Counts	4,294,967,295 (32-bit)
Frequency	500 Hz
Min. Pulse Width	1 ms
Input Impedance	10 kΩ
Overvoltage Protection	+70 VDC

Relay Output

Channels	6
Type	PhotoMOS Relay, Form A
Contact Rating	60V/1.0A (Operating Temperature -25 to +40°C) 60V/0.8A (Operating Temperature +40 to +60°C) 60V/0.7A (Operating Temperature +60 to +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 VDC	OPEN or <4 VDC
Source	+10 ~ +50 VDC	OPEN or <4 VDC

PhotoMOS Relay	ON State Readback as 1
Form A Relay Contact	
	OFF State Readback as 0

🗀 Pin Assignments

PET-7065: PoE

ET-7065: +10 to +30 VDC
PET-7065: +12 to +48 VDC
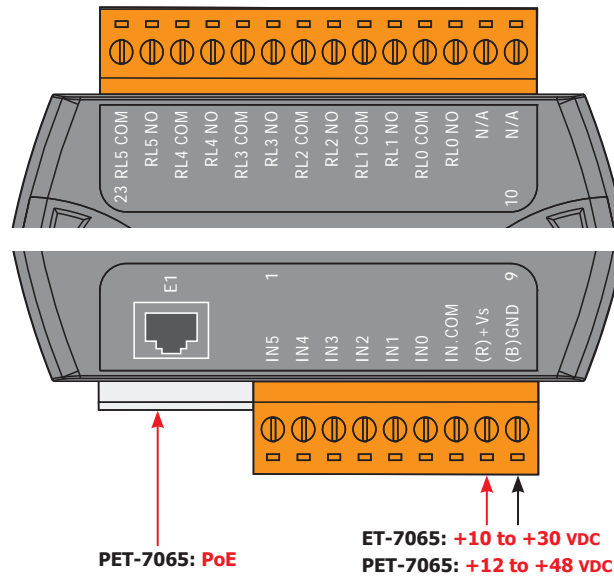
🗀 Ordering Information

ET-7065 CR	Ethernet I/O Module with 6-channel PhotoMOS Relay, 6-channel Digital Input (RoHS)
PET-7065 CR	PoE Ethernet I/O Module with 6-channel PhotoMOS Relay, 6-channel Digital Input (RoHS)