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| ■ Built-in Web Server |
| ■ Web HMI |
| ■ Support for both Modbus TCP and Modbus UDP Protocols |
| Communication Security |
| ■ Dual Watchdog |
| ■ Wide Operating Temperature Range: -25 ~ +75°C |
| ■ I/O Pair Connection |
| ■ Built-in I/O |
| ☐ Thermistor Input: 8 Channels |
| □ DO: 4 Channels |
| |
| CE FC Robs |

Introduction .

ET-7005/PET-7005 is used for measuring temperature by the thermistor. It supports many kinds of thermistors and features individual channel configuration which means that eight of its input channels can individually be configured with different kind of thermistor and supports user-defined types by specifying the Steinhart coefficients to add other thermistors, if necessary. Besides, ET-7005/PET-7005 also has 4-channel digital outputs for alarm output with Short-circuit protection and overload protection. Adding 2500 VDC intra-module isolation and 110 VDC/VAC overvoltage protection for thermistor on ET-7005/PET-7005 makes itself running with higher reliability.

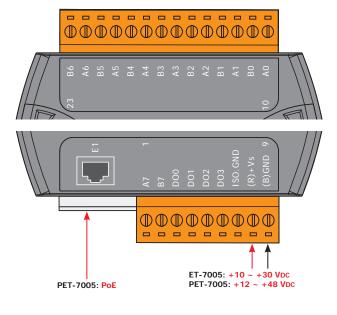
■ System Specifications .

| Models | ET-7005 | PET-7005 |
|------------------------------|--|---------------------------|
| Software | | |
| Built-in Web Server | Ye | es . |
| Web HMI | Yes | |
| I/O Pair Connection | Yes | |
| Communication | | |
| Ethernet Port | 10/100 Base-TX with Auto MDI/MDI-X | |
| PoE | - | Yes |
| Protocol | Modbus TCP, Modbus UDP | |
| Security | ID, Password and IP Filter | |
| Dual Watchdog | Yes, Module (0.8 seconds), Communication (Programmable) | |
| LED Indicators | | |
| L1 (System Running) | Yes | |
| L2 (Ethernet Link/Act) | Yes | |
| L3 (Ethernet 10/100 M Speed) | Yes | |
| PoE Power | - | Yes |
| 2-Way Isolation | | |
| Ethernet | 1500 V _{DC} | - |
| I/O | 2500 VDC | 2500 VDC |
| EMS Protection | | |
| ESD (IEC 61000-4-2) | ±4 kV Contact for Each Terminal and ±8 kV Air for Random Point | |
| EFT (IEC 61000-4-4) | ±4 kV for Power Line | |
| Power | | |
| Reverse Polarity Protection | Yes | |
| Powered from Terminal Block | Yes, 10 ~ 30 VDC | Yes, 12 ~ 48 VDC |
| Powered from PoE | - | Yes, IEEE 802.3af, Class1 |
| Power Output | - | - |
| Consumption | 2.1 W (Max.) | 3.0 W (Max.) |
| Mechanical | | |
| Dimensions (L x W x H) | 123 mm x 72 mm x 35 mm | |
| Installation | DIN-Rail or Wall Mounting | |
| Environment | | |
| Operating Temperature | -25 ~ +75°C | |
| Storage Temperature | -30 ~ +80°C | |
| Humidity | 10 ~ 90% RH, Non-condensing | |

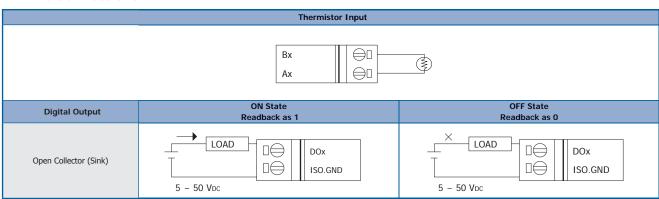
■ I/O Specifications _____

| Thermistor Input | | |
|----------------------------------|--|--|
| Channels | 8 (Differential) | |
| Sensor Type (thermistor) | Precon ST-A3, Fenwell U, YSI L100, YSI L300, YSI L1000, YSI B2252, YSI B3000, YSI B5000, YSI B6000, YSI B10000, YSI H10000, YSI H30000, User-defined | |
| Individual Channel Configuration | Yes | |
| Resolution | 16-bit | |
| Sampling Rate | 10 Sample/Second (Total) | |
| Accuracy | +/-0.1% or better | |
| Zero Drift | +/-20 μV/°C | |
| Span Drift | +/-25 ppm/°C | |
| Overvoltage Protection | 110 VDC/VAC | |
| Common Mode Rejection | 86 dB | |
| Normal Mode Rejection | 100 dB | |
| Open Wire Detection | Yes | |
| Digital Output | | |
| Channels | 4 | |
| Туре | Isolated Open Collector | |
| Sink/Source (NPN/PNP) | Sink | |
| Max. Load Current | 700 mA/Channel | |
| Load Voltage | 5 Vpc ~ 50 Vpc | |
| Overvoltage Protection | 60 V _{DC} | |
| Overload Protection | 1.4 A | |
| Short-circuit Protection | Yes | |
| Power-on Value | Yes, Programmable | |
| Safe Value | Yes, Programmable | |

■ Pin Assignments _____



Wire Connections.



Ordering Information _____

| ET-7005 CR | Ethernet I/O Module with 8-ch Thermistor Inputs, 4-channels DO (RoHS) |
|-------------|---|
| PET-7005 CR | PoE Ethernet I/O Module with 8-ch Thermistor Inputs, 4-channels DO (RoHS) |