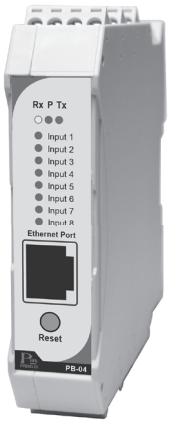
# PB-04-SERIES

## MODBUS TCP I/O MODULE ANALOG INPUT




## Description

- Modbus TCP I/O Module Analog Input PB-04: A device used with the Modbus TCP protocol system. It is available in three models: 8, 4, and 2 analog inputs.
- Inputs support 0–20 mA, 4–20 mA, and 0–10 VDC, 16-bit resolution with channel-isolated design.
- Operation via the Modbus TCP/IP protocol.
- Suitable for use as remote I/O or for expanding I/O for a PLC.
- LEDs indicate the status of each input and output.

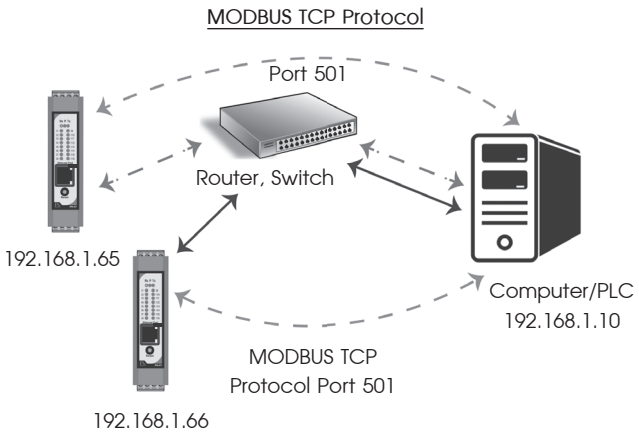
## Specification

| Model | | PB-04-8 | PB-04-4 | PB-04-2 |
|---|---|---|---|---|
| Power Supply | | 15-30VDC | | |
| Power Consumption | | 4VA | | |
| Display | | LED | | |
| Input | Output Points | 8 | 4 | 2 |
| | Maximum Voltage | 0-20mA/ 0-10V | | |
| | Input Type | Range | Resolution | |
| | 0 | 0-20mA | 1uA | |
| | 1 | 4-20mA | 1uA | |
| | 2 | 0-1VDC | 0.1mV | |
| | 3 | ±1VDC | 0.1mV | |
| | 4 | 0-5VDC | 0.1mV | |
| | 5 | ±5VDC | 1mV | |
| | 6 | 0-10VDC | 1mV | |
| | 7 | ±10VDC | 1mV | |
| | Accuancy | 1% of Full Scale | | |
| | Display Input | | | |
| | 0 | แสดงค่าตาม Input Type | | |
| | 1 | แสดงค่า 0-65535 16 Bits | | |
| | 2 | Scale Zero Span | | |
| Communi-cation | Protocol | MODBUS TCP/IP | | |
| | Ethernet | 10/100Mbits/s | | |
| Ambient Operation | Temperature | -10 ˚C to 60 ˚C | | |
| | Humidity | <85% RH Non-Condensing | | |
| Ambient Storage | Temperature | -20 ˚C to 80 ˚C | | |
| | Humidity | <85% RH Non-Condensing | | |
| Protection Degree | | IP20 | | |
| Installation | | DIN RAIL | | |
| Enclosure | | ABS-V0 | | |
| Size (mm.) | | 23 x 113 x 100 | | |
| Weight (kg.) | | 180 | | |

## Operation

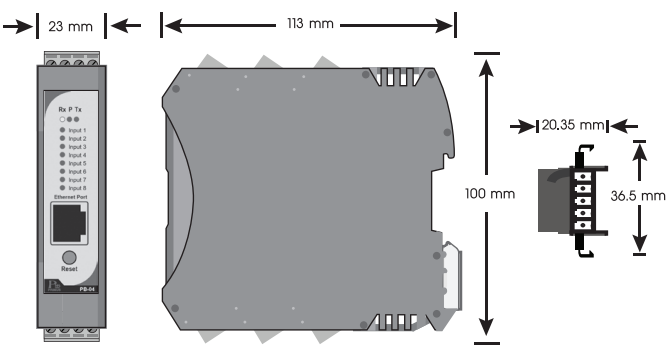
PB-04 is available in models with 8, 4, and 2 analog inputs. It supports 0–20 mA, 4–20 mA, and 0–10 VDC in a single unit with 16-bit resolution providing high accuracy. It allows Modbus master devices such as a PC or PLC to read data from the connected inputs. It is suitable for use as remote I/O or as I/O expansion for a PLC.

PB-04 can be programmed to configure the Ethernet IP using a PC, with configuration via a web server (Communication format).

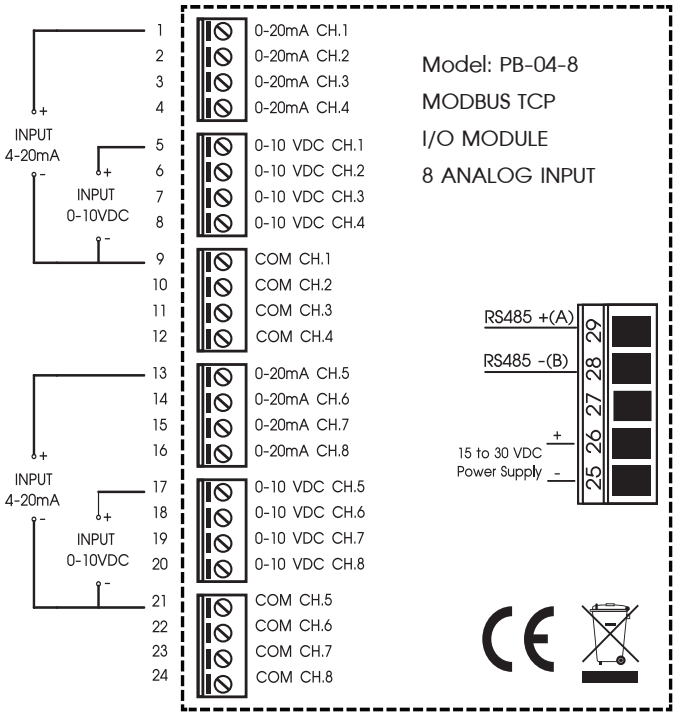


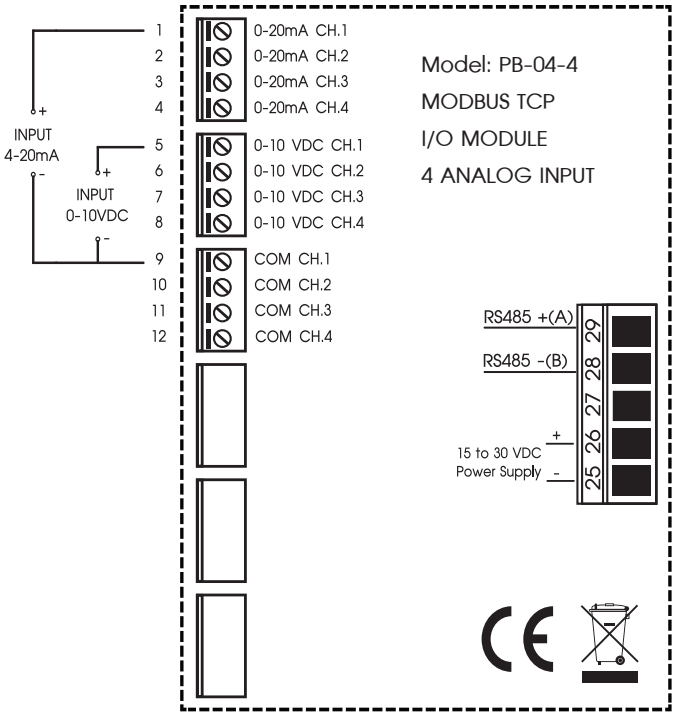

This is MODBUS TCP protocol communication between a computer and a Modbus TCP I/O module. The computer can write or read data from the Modbus TCP I/O module using communication port 501.

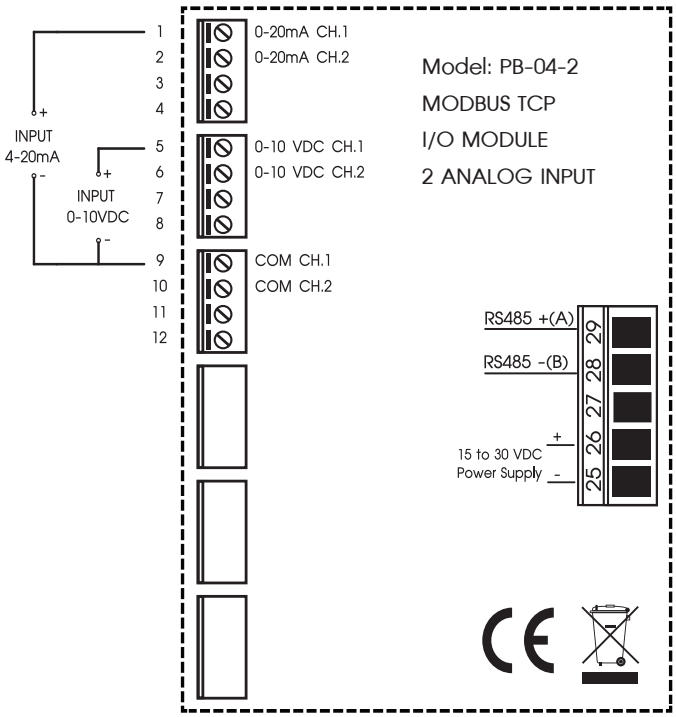
## Dimension



## Wiring Diagram




**WARNING**

- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

## Wiring Diagram

PB -04- [ ]

| Input/Output Signal | |
|---|---|
| 8 | 8 Analog Input |
| 4 | 4 Analog Input |
| 2 | 2 Analog Input |