

PoE-AI4

4 Channels Analog Input (voltage / current) with PoE PD Module



Features

- 4 Channels Analog Input Module
- Channel Independent Configuration
- Isolation: 2500 Vrms
- High Input Impedance
- Communication Protocol: Modbus TCP



Introduction

The PoE-AI4 is 4 Differential or 8 Single-ended channels analog input (voltage/current) module with PoE PD redundant power input which provides users who requires compact data acquisition.

Analog Input

Channels	4 Differential or 8 Single-ended (Selected by software)
Voltage Range	$\pm 100\text{mV}$, $\pm 500\text{mV}$, $\pm 1\text{V}$, $\pm 5\text{V}$, $\pm 10\text{V}$, $0\sim 100\text{mV}$, $0\sim 500\text{mV}$, $0\sim 1\text{V}$, $0\sim 5\text{V}$, $0\sim 10\text{V}$
Current Input	$\pm 20\text{mA}$, $4\sim 20\text{mA}$, $0\sim 20\text{mA}$
Disconnection Detection	Yes (4 ~ 20 mA)
Sampling Rates	12 samples / second (Total)
Resolution	24-bit, 22-bit, 20-bit, 18-bit, 16-bit, 14-bit, or 12-bit. (Selected by software)
Accuracy	$\pm 0.1\%$ FSR
Input Impedance	Voltage: 100 M Ω Current: 120 Ω
Span Drift	± 25 ppm/ $^{\circ}\text{C}$
Zero Drift	± 6 $\mu\text{V}/^{\circ}\text{C}$
Channel Independent	Yes

General

Interface	Ethernet
Power Consumption	2 W @ 24VDC
Input Range	10 ~ 60 VDC
Isolation	2500 Vrms

Communication

Protocol	Modbus TCP
Speed	10/100 based-T Ethernet

Environmental

Operating Temp.	-25 ~ 70 $^{\circ}\text{C}$ (-13 ~ 158 $^{\circ}\text{F}$)
Storage Temp.	-30 ~ 75 $^{\circ}\text{C}$ (-22 ~ 167 $^{\circ}\text{F}$)
Operating Humidity	10% to 90% (non-condensing)

Dimension

LED Indicators	PWR, Comm, Program, Status
Dimension	20 x 100 x 95mm
Weight	65g (Average)