

SenseLive

E7010A

4-Channel IO Controller

SenseLive E7510A

IO Controller

4-Channel IO Controller 1-RS485 to AI/AO & 3- Eth to RS485/AI/AO

Product Overview

The E7510A series is a compact, cost-effective industrial gateway supporting flexible AI/AO and DI/DO combinations. It offers stable 16-bit analog signal acquisition and output, with options for 4-20 mA, 0-5 V, 0-10 V, and resistance inputs (factory-set). Models support RS485 or Ethernet communication for reliable field I/O monitoring and control. Custom channel combinations (0-4 AI/AO) are available on request.

Key Features

- Up to 4-channel AI input and 4-channel AO output with 16-bit ADC/DAC accuracy
- Serial communication from 1200-115200 bps, supporting multiple parity modes
- Ethernet-enabled model E7010A-AI-AO) with support for third-party 485 slave devices via 485-ETH
- Supports MB protocol and Modbus RTU-to-JSON conversion
- Built-in edge computing: alarms, data scaling, change upload, offline alerts
- Network configuration and parameter viewing via SenseLive_config_2.0 software



Technical Specifications

Appearance	
Size:	Length × width × height=9.4cmx6.5cmx2.5cm
Serial port parameters	
E7010A:485-IO	
E7010A :485-IO、485-ETH	
Baud rate: The default baud rate is 115200bps, which can be modified through software or instructions.	
Data bits: 8 bits.	
Check bit: No check, odd check, even check.	
Stop bit: 1 bit	
Software	
Network Protocol	MODBUS TCP/MQTT/JSON/HTTP
RS485 Protocol	MODBUS RTU

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AI input /AO output form	
AI input	
Current input: 4-20mA	
Voltage input: 0-5V, 0-10V (customization required)	
Resistance input: 0-10K, resistance-type temperature and humidity sensors, etc. (customization required)	
AO output:	
Current output: 4-20mA	
Power supply	
Stable operating status: 200mA@12V	
E7010A(Ethernet) parameters	
Network port	It can be connected to 10/100M adaptive Ethernet.
Environmental requirements	
Operating temperature	-40~85°C
Storage temperature	-45~120°C
Humidity range	5 to 95% relative humidity



interface instructions

Indicator light	Color	Remarks
POWER	red	The equipment is powered on normally
LINK	Green/Blue	Green indicates an Ethernet connection/blue indicates a link has been established
ACT1	Green/Blue	Green: RS485-NET interface data output
ACT2	Green/Blue	Blue: RS485-NET interface data input
ACT3	Green/Blue	Green: Data received by the network end
Indicator light	Color	Remarks
POWER	red	The equipment is powered on normally