SenseLive

Technical Datasheet

SenseLive E7010D 4-Channel IO Controller

SenseLive Technologies

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4-Channel IO Controller
1-RS485 to DI/DO & 3- Eth to RS485/DI/DO

Product Overview

The E7010D series is a compact, cost-effective industrial gateway supporting flexible DI/DO 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 DI/DO) are avDIlable on request.

Key Features

- Up to 4-channel DI input and 4-channel DO output with 16-bit ADC/DAC accuracy
- Serial communication from 1200-115200 bps, supporting multiple parity modes
- Ethernet-enabled model (E7010D-DI-DO) 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	
E7010D-1:485-IO E7010D-3:485-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

Power supply	
Stable operating status: 200mA@12V	
(Ethernet) parameters	
Network port	It can be connected to 10/100M adaptive Ethernet.
Environmental requirements	
Operating temperature	-40~85℃
Storage temperature	-45~120℃
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 Blue: RS485-NET interface data input
ACT2	Green/Blue	Green: Data received by the network end Blue: Data is sent from the network end
ACT3	Green/Blue	Green: 485-IO interface data input Blue: 485-IO interface data returned
Indicator light	Color	Remarks
POWER	red	The equipment is powered on normally