

SenseLive

E7000 & E7500

RS485/ Ethernet ↔ 2-AI, 4-DI, 4-DO

DIN-Rail Serial RS-485 to Ethernet Modbus & MQTT Gateway

Product Overview

The SenseLive E7000 is an Ethernet-based remote I/O controller; the E7500 offers identical I/O via RS-485. Both monitor up to 4 digital inputs, 2 analog inputs and control 4 relay outputs, providing industrial-grade data acquisition and control in a compact housing.

Key Features

- **Digital Inputs:** 4 channels, passive (dry) or active (0-3 V low / 8-24 V high) detection
- **Analog Inputs:** 2 channels configurable as 0-5 V, 0-10 V, 4-20 mA or 0-10 kΩ
- **Relay Outputs:** 4 × Form-C, 5 A @ AC 250 V / DC 30 V
- **Protocols:**
 - E7000: Modbus TCP↔RTU, TCP/UDP, HTTP GET/POST
 - E7500: Modbus RTU over RS-485
- **Performance:** Sub-30 ms I/O response; supports up to 100 concurrent TCP connections (E7000)
- **Environmental:** -40 °C to +85 °C operation; 5-95 % RH non-condensing; flame-retardant housing
- **Mounting:** DIN-rail or wall-mountable via integrated lugs



Applications

- Industrial automation
- PLC & SCADA integration
- Power, water & environmental monitoring
- Building & facility management
- Access control & security systems

Technical Specifications

Parameter	E7000	E7500
Dimensions (L×W×H)	122 × 72 × 34 mm	122 × 72 × 34 mm
Power Input	24 V DC via 2-pole terminal	24 V DC via 2-pole terminal
Power Consumption	< 1.8 W (< 75 mA @ 24 V)	< 1.7 W (< 70 mA @ 24 V)
Digital Inputs	4 × dry/passive or 0-24 V	4 × same

	wet (opto-isolated)	
Analog Inputs	2 × (0-5 V / 0-10 V / 4-20 mA / 0-10 kΩ)	2 × same
Relay Outputs	4 × Form-C, 5 A @ AC 250 V / DC 30 V	4 × same
Network Interface	RJ45 10/100 Mbps Ethernet (2 kV ESD protection)	RS-485 terminal (A/B, 1 200-115 200 bps, 8/N/1)
Protocols	Modbus TCP↔RTU, TCP/UDP, HTTP GET/POST	Modbus RTU
Response Time	< 30 ms	< 30 ms
Operating Temp.	-40 °C to +85 °C	-40 °C to +85 °C
Storage Temp.	-45 °C to +165 °C	-45 °C to +165 °C
Humidity	5-95 % RH (non-condensing)	5-95 % RH (non-condensing)

Hardware & Interfaces

Interface	Description
Power & Relays	2-pole 24 V DC & 4 × Form-C relay terminals (NO/NC/COM)
I/O Block	7-pin terminal: AI ₂ /RS485 A, AI ₁ /RS485 B, GND, DI _{4...DI₁}
Network	E7000: RJ45 Ethernet; E7500: RS-485 A/B
LED Indicators	PWR (green), ACT (blue), LINK (green/blue on E7000)

Ordering & Accessories

Model	Description
E7000	Ethernet remote I/O controller
E7500	RS-485 remote I/O controller

Compliance

- CE, FCC, RoHS
- Designed for industrial environments per IEC standards

For volume pricing or OEM firmware, contact SenseLive Technologies.