

# SenseLive

# X5050D

# Modbus

# Gateway

## RS485 TO TCP MQTT JSON ModbusTCP

### Product Overview

**X5050D** is a metal-cased RS485-to-Ethernet industrial data gateway that supports Modbus, MQTT, and JSON data upload. It offers high durability, rail/desktop installation, wide-voltage power input, and reliable RS485 data collection for lot.

### Key Features

- Durable metal casing with strong heat and interference resistance
- RS485 to Ethernet gateway for industrial data collection
- Supports Modbus TCP/RTU, MQTT, and JSON data conversion
- Rail or desktop installation options
- 9-24V wide-voltage power input with protection
- High-speed RS485 communication up to 921600bps
- Multi-host access, cloud management, and remote configuration
- Supports automatic data collection and uploading via HTTP/MQTT



### Technical Specifications

Parameter	X5050D
Category	Details
Appearance / Interface	RS485 terminal block, terminal-block power supply
Size	White FR: 8.9 × 3.7 × 5.9 cm Black FR: 8.9 × 3.7 × 8.3 cm Black Metal: 8.9 × 3.3 × 5.2 cm
Ethernet Interface	RJ45 with 2KV surge protection
Serial Port	RS485 ×1: RXD, TXD, GND
Baud Rate	300-921600 bps
Check Bits	None, Odd, Even, Mark, Space
Data Bits	7-8 bits
Flow Control	RTS/CTS, DTR/DCR, NONE
Supported Protocols	ETHERNET, IP, TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS

Configuration Methods	SenseLive_config_2.0, Web browser (custom page), device library, AT commands, SL cloud server
Communication Methods	Socket, Virtual COM, device management library
Working Modes	TCP server, TCP client, UDP, Real COM, Modbus TCP, Telnet
Power Supply	9-24V DC
Operating Temperature	-40 to 85°C
Storage Temperature	-45 to 100°C
Humidity Range	5-95% RH (non-condensing)

**interface instructions**

Interface	Instructions
RS485 Terminal	Connect A = 485+ and B = 485-. Supports up to 32 devices, max distance 1200 m. Use 120 Ω termination resistor for lines over 300 m.
Power Input (Terminal Block)	Connect 9-24V DC to the power terminals. Supports reverse-polarity protection.
Ethernet Port (RJ45)	Plug in standard network cable. Supports auto-cross, and has 2KV surge protection.
Indicators (PWR / LNK / ACT)	PWR: Power status. LNK: Network link & TCP connection. ACT: Data flow (network→serial and serial→network).
Reset (Plastic Models)	White model: Short NC pins for 5 seconds. Black model: Press DEF/RESET button 5 seconds.
Reset (Metal Model)	Press RESET button for ~5 seconds to restore IP to 192.168.1.254.
Connections Needed	Only three connections: Power, RS485, and Ethernet cable.

**Indicator Lights**

Indicator	Meaning
PWR (Power)	Lights ON when the device is receiving power.
LNK (Link)	Green: Network cable is properly connected. Blue: TCP connection established (or UDP mode active).
ACT (Active)	Green: Data sent from network → serial port. Blue + Green: Data sent from serial → network (serial device is responding).

