
Sentia Manager

STRATA-L101

The **STRATA-L101** is an intelligent manager that connects the **SENTIA** system's central server to the remote **STRATA-L102** modules, acting as a bridge between the local infrastructure and the supervision network. Designed for critical environments such as data centers and technical rooms, the **STRATA-L101** offers secure communication, power distribution to remote modules, and a full-featured Human-Machine Interface (HMI) for local operation.



Communication with the server is established over an Ethernet IP network using the MQTT protocol, with support for TLS encryption to ensure secure data exchange. Communication with **STRATA-L102** modules is carried out via RS-485 bus, with configurable transmission speed.

The device also features local interfaces, such as a card reader input and a touch screen HMI for real-time monitoring and control of connected remote devices.

Key Features

- Communication with **SENTIA** server via Ethernet (MQTT/TLS)
- Communication with **STRATA-L102** modules via RS-485 (configurable speed)
- Input for card reader (Wiegand or Abatrack, compatible with standard protocols)
- Touch screen HMI interface for local operation
- Communication with HMI via RS-232, cable length up to 15 meters
- Real-time monitoring of remote modules:
 - Communication status
 - Sensor readings
 - Remote door control
- Online verification of user permissions and identities with the server before door access is granted
- Built-in Wi-Fi Access Point enabled during configuration
- Configuration interface accessible via standard web browsers (e.g., Chrome)
- Robust enclosures

Technical Specifications

SERVER COMMUNICATION INTERFACE	Ethernet 10/100 Mbps (MQTT)
COMMUNICATION SECURITY	TLS support
REMOTE MODULE INTERFACE	RS-485 (configurable speed)
CARD READER INTERFACE	1 input (Wiegand/Abatrack)
HMI COMMUNICATION INTERFACE	RS-232 (cable up to 15 meters)
CONFIGURATION INTERFACE	Wi-Fi Access Point + Web UI
POWER INPUT	12VDC
MAXIMUM POWER CONSUMPTION	5W
OPERATING TEMPERATURE RANGE	0 °C to 55 °C
ENCLOSURE DIMENSIONS	144 mm × 88 mm × 40 mm
WEIGHT	120g
INSTALLATION	Surface mount or DIN rail