

Smart Wireless RTU



General Description

SGW - 901 is a versatile, high-performance device designed to bridge industrial networks, seamlessly connecting wired and wireless systems to remote cloud platforms. Ideal for monitoring and managing various field devices, this gateway enables real-time data collection, processing, and transmission to cloud platforms or local servers, optimizing operational efficiency. With its robust design and secure communication channels, this Smart Wireless RTU meets the demands of modern industrial applications.

Features

- Supports MQTT, HTTP, FTP, CoAP protocols to communicate with remote Cloud platforms
- Wireless Wi-Fi connectivity
- Modbus RTU/Modbus TCP as standard input
- Optional Analog and Digital I/O available
- Capable of Data storage and Bulk upload in case of loss of connection
- Integrated Cloud Platform for Data monitoring and Control available
- Capable of connecting to third party Cloud platforms
- Customizable to suit specific requirements
- Device Configuration menu page access over Wi-Fi on local smartphones/PCs

Applications

- Industrial Automation
- Building Automation
- Smart Agriculture and Irrigation Systems
- Industry 4.0 applications
- Smart Cities

Architecture

The device seamlessly integrates with a wide range of devices, including PLCs, transmitters, actuators, and various field instruments, through the Modbus RTU. Data from these devices is transmitted to a cloud platform via MQTT, enabling real-time monitoring and analysis. Additionally, control actions and commands sent from the cloud can be relayed back to local controllers or actuators via Modbus RTU. Optional Analog and Digital I/Os can be added for interfacing devices which do not support Modbus.

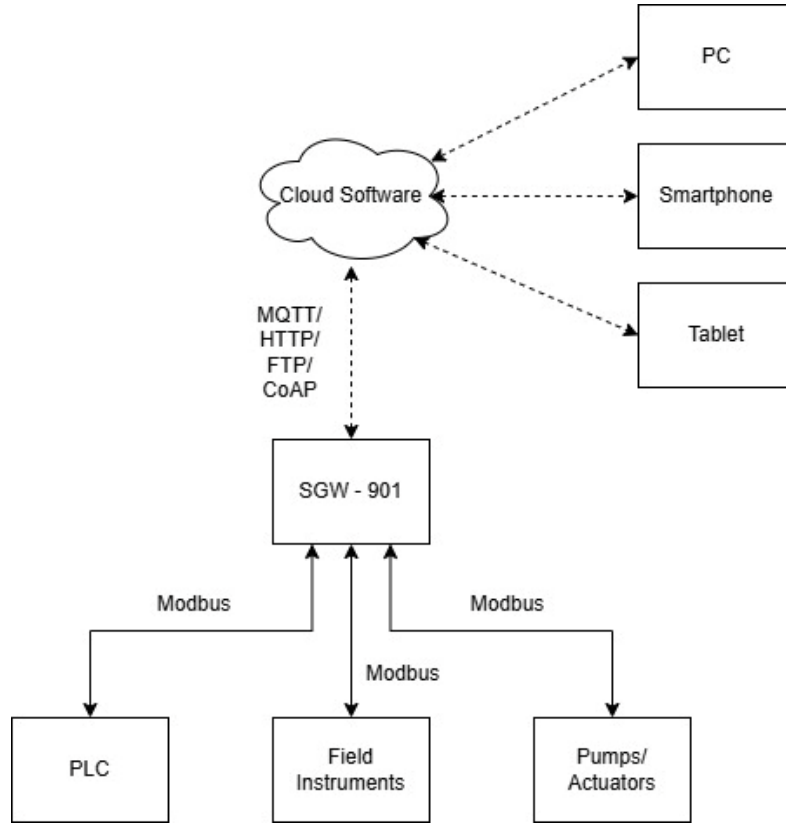
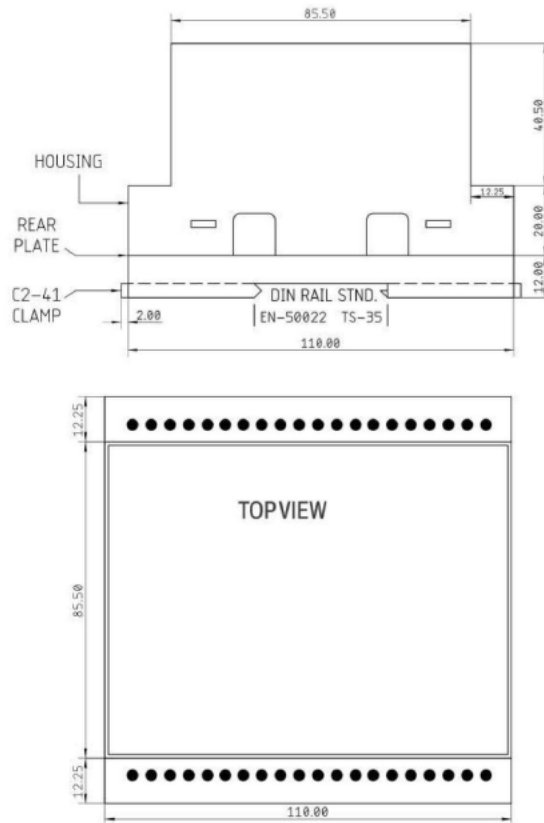


Fig.1 System Architecture

Technical Specifications

| | |
|-------------------------|---|
| Data Interface | Modbus RTU/ Modbus TCP (Optional add on Analog and Digital I/O) |
| Communication Interface | MQTT, HTTP, FTP, CoAP |
| Connectivity | 2.4 GHz Wi-Fi |
| Data transfer interval | 1 to 60 minutes field settable |
| Material | Engineering Plastic |
| Power supply | 24 V DC +/- 10% |
| Operating temperature | -20°C to 70°C |
| RTC | Yes |
| Degree of protection | IP-44 |
| Data Storage | Micro SD card (Up to 64 GB) |
| Mounting | DIN Rail |

Dimensions



Note:

- Due to continuous improvement, specifications are subject to change without prior notice.
- A complete, end-to-end, customized IoT solution, along with the device, is available. Please contact us for any type of support, including project-specific customization.