

PRODUCT DESCRIPTION

FLOLINK MICRO REMOTE TERMINAL



General Description

The FloLink Micro RTU provides a cellular communication link for various process sensors. With its hazardous area certification and low power consumption, the Micro RTU is the perfect choice for communicating with remote locations.

The Micro RTU has the following basic functions:

- Communicates with both a host computer and one or more process sensors using the Willowglen FloLink Communication Protocol.
- Serves as a communication bridge, allowing a host computer to communicate transparently with one or more process sensors.
- Acts as an intermediary "host", polling the process sensors for data and passing the data up to the real host computer.
- Provides local access (for example, using a serial connection to a laptop) to the FloLink unit for configuration.
- Measures and is able to report the values of a number of analog inputs and digital inputs.
- Can be used with process sensors such as a temperature probe and Willowglen FloLog Gas Well Flow Logger.

Features

The FloLink Micro RTU has the following features:

- Uses GPRS cellular technology.
- Provides convenient, reliable and secure data transmission.
- Extremely Energy Efficient
- Easy to install
- Hazardous Location Approved
- RS-232 port that is used to connect to a laptop for on-site configuration of the FloLink unit.
- RS-485 bus that is used to connect to one or more FloLog devices process monitoring points.

General Specifications

Cellular Communications

- GPRS Cellular
- **Receiver Sensitivity:** -110 dBm
- **Frequency:** 902-928 MHz
- **Advanced Security:** 256-bit AES encryption

Radio Communications (Optional)

- **Radio Option:** Spread-Spectrum (Frequency Hopping) direct FM
- **Frequency:** License-free (in many countries) ISM bands, 902-928 MHz or 2.4-2.4835 GHz
- **Transmitter Power:**
 - 100 mW for 900 MHz band
 - 50 mW for 2.4 GHz band
- **Receiver Sensitivity:**
 - 114 dBm for 900 MHz band
 - 105 dBm for 2.4 GHz band
- **Range for Line of Sight with Yagi Antenna:**
 - Up to 32 km (20 miles) for 900 MHz band
 - Up to 16 km (10 miles) for 2.4 GHz band
- **Data Rate:** 9600 baud
- **Status Indicators:** Power, Rx Data, Tx Data
- Point-to-Multipoint network configuration
- Single radio repeater capability
- FCC (USA) and Industry Canada Approved
- **Serial Interfaces:**
 - RS-485 bus for interface to process sensors
 - RS-232 port for on-site configuration with a laptop computer

Power

Self contained set of 3 D alkaline batteries provides enough power to run the unit for 2 years under normal conditions

Environmental

- **Operating Temperature:** -30°C to +60°C
- **Storage Temperature:** -40°C to +80°C
- **Hazardous Area Approved:** Class I, Div 2

Mechanical

- **Weight:** 1 kg (2.2 lb) including batteries
- **Size:** 89 mm high by 127 mm wide (3.5 in by 5 in)
- **Environmental Rating:** NEMA 4 type Enclosure, impact and corrosion resistant
- **Mounting:** On a 2 inch vertical pipe or flat plate

Accessories

- Bath Temperature Probe
- Temperature Probe
- Temperature Interface Module
- Auxiliary Pressure Transducer
- Switch Interface Module
- Hub
- FloLog Gas Well Flow Logger
- Galvanic Isolator

