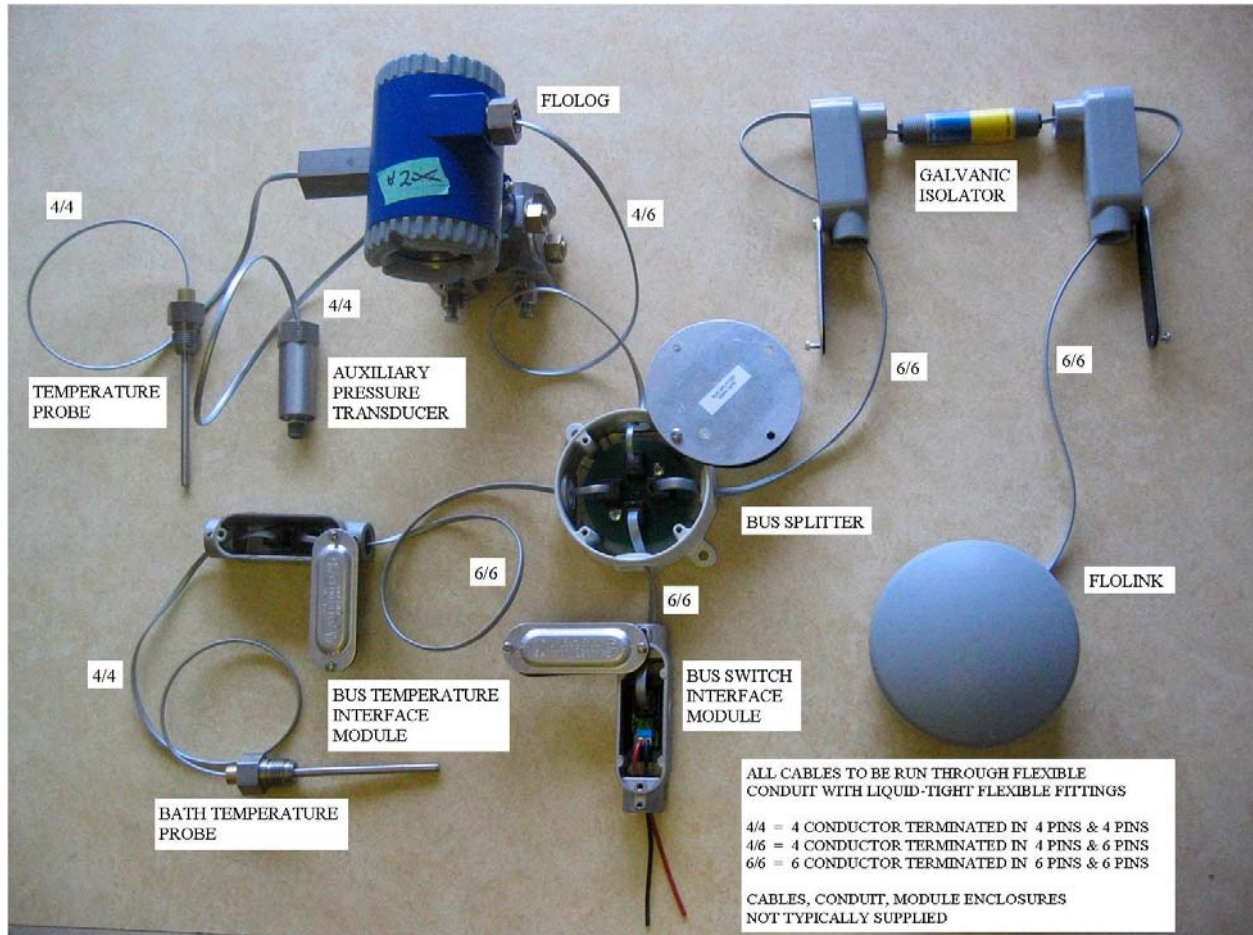


## FloLink™ Micro Remote Terminal Unit (RTU)



### General Description

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

The FloLink™ 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 Flow Logger.

# FloLink™ Features and Specifications



## 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.

## 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 Cell” long-life 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 lbs.) including batteries
- **Size:** 89 mm high x 127 mm wide (3.5 in. x 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 Flow Logger
- Galvanic Isolator

For additional information on specific configurations and pricing, please contact Willowglen Systems Inc.

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