



AccuTank™

WIRELESS ULTRASONIC LEVEL MONITORING SYSTEM



DESCRIPTION

FLO-CORP's AccuTank™ Wireless Ultrasonic Level Monitoring System monitors process conditions through cellular networks and satellites allowing the user to access data anytime remotely through a web interface. The ultrasonic level transmitter communicates to the CONNEX 3D™ modem via digital RS485 communications providing reliable, accurate tank level monitoring with daily measurements both scheduled and event driven. Remote monitoring with the CONNEX 3D™ is simple and flexible, eliminating the hassles of third party web portals, expensive monthly monitoring fees and unreliable help desk support. Simply connect the CONNEX 3D into your server/network and view the cellular data in a simple .csv file that transfers via FTP from the cell tower to your server. Transmits alarms and inventory time date stamped data. All data is viewable from your computer, tablet or smartphone. Email and SMS text are sent using pre-programmed alarm set points in the CONNEX 3D modem.

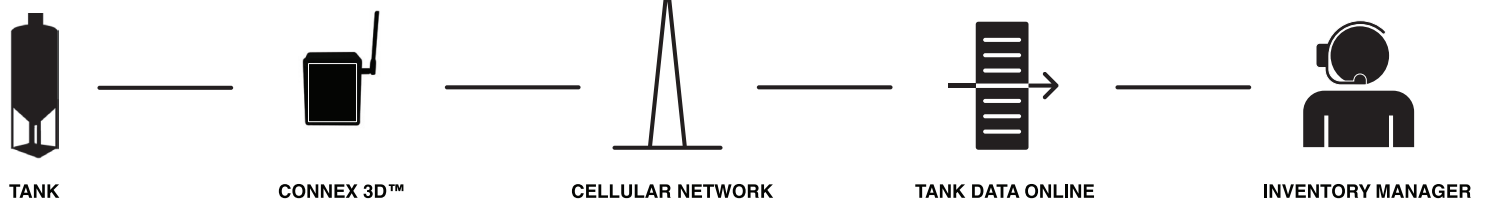
FEATURES & BENEFITS

- Remote monitoring through cellular networks
- E-mail reporting
- 24/7 online access to data through web portal
- Mobile ready access
- Measures up to 35ft of liquid level
- Non-contacting ultrasonic level sensors
- System arrives pre-calibrated for easy install

PRIMARY AREAS OF APPLICATION

- Pump Stations
- Mobile Tanks
- Frac Tanks
- Chemical Storage
- Power Generator Fuel Storage
- Remote Locations

HOW IT WORKS





RANGER PLUS™ ULTRASONIC LEVEL TRANSMITTER

DESCRIPTION

The Ranger Plus™ Ultrasonic Level Sensor provides accurate non-contacting level measurement and features (3) Analog Outputs and (2) Switches. The Ranger Plus™ LTRP-10 provides level measurement up to 10 feet and the Ranger Plus™ LTRP-35 provides level measurement up to 35 feet. The analog output modes are 0-10 VDC, 4-20mA Sinking and 4-20mA Sourcing. The switches are configurable as either “PNP” or “NPN” type (sourcing or sinking). Each has an adjustable set point, hysteresis, window, initial conditions, ON delay, OFF delay and loss of target response to easily create controls and alarms. The sensor is housed in a chemically inert PVDF sealed housing for durability and long life. The sensor is well suited for a wide range of corrosive, sticky or dirty type media. The Ranger Plus™ applications include pump control, bulk inventory, batch processing, water management, high/low level alarms and much more. To configure, monitor and data log your application, download the free Ranger Plus™ software and purchase one RS-485 communication tool.

FEATURES & BENEFITS

- Unaffected by optical factors like color and transparency
- Computer (PC) software allows remote adjustment
- Standard RS-485 Serial Interface
- Durable housing for long life
- Threaded at both ends



RANGER ELITE™ ULTRASONIC LEVEL TRANSMITTER

DESCRIPTION

The Ranger Elite™ Ultrasonic Level Transmitter provides accurate non-contacting level measurement up to 480” (12.m) and features Two-Wire Loop-Powered 4-20 mA Analog Output. The adaptive signal and automatic echo detection & control provides effortless and accurate level measurements in one non-contacting transmitter. The 2” NPT mount on the transducer makes mounting into a standard tank nozzle or fitting easy and affordable. The operator interface uses a 4 line graphic display that allows for easy level indication and configuration. The push buttons on the front face are easy to navigate even without using a programming manual. Plus, the HART communications output talks directly to the standard FLO-CORP Tracer Talker™ Software to configure, monitor and data log your application. Download the free FLO-CORP Tracer Talker software and purchase one communication tool.

FEATURES & BENEFITS

- Easy installation and start-up
- Large 4 line graphic display
- Standard HART Communication interface
- Durable powder coated aluminum housing for long life
- 2” NPT threaded process connection



CONNEX 3D™ WIRELESS MONITOR

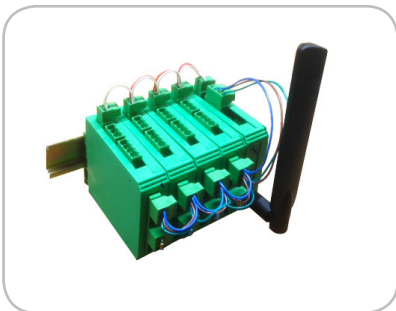
DESCRIPTION

FLO-CORP introduces the patent pending CONNEX 3D™ Cellular Modem. The industry's first process cellular monitor that communicates to field and host devices via RS485 and transmit wirelessly through cellular data transmission to cloud based server. The server data can be displayed on any PC, Smartphone, Tablet, any device with a Web Browser. From point A to point B, the CONNEX 3D provides the user flexibility to configure any standard analog input or RS485 Modbus input using a laptop or PC USB direct programming setup tool for monitoring setup and diagnostic interface. The CONNEX 3D Cellular Modem offers the added benefit of connecting multiple field devices into one monitor for signal data plan networking measuring multiple field devices. The added cost savings of single data plan monitoring can now be a reality for multiple device applications such as tank farms, process flow monitoring, remote pump stations monitoring and more. Data gathering has never been easier. The CONNEX 3D cellular monitor includes a built-in data logger with up to 32,000 samples of data stored for field retrieval and/or cellular transmission in one upload. Now, even when cellular connectivity is lost, your measuring data isn't. The CONNEX 3D Display, bright 6 digit LED field or panel display is compatible with the new CONNEX 3D modem so now the field signal can also be displayed in the field for plant operations and easy prompting of measurement conditions. FLO-CORP's cost-saving hardware and software design provides process control and monitoring, data gathering, data reporting, alarm alerting via SMS and email, alarm historian and more.

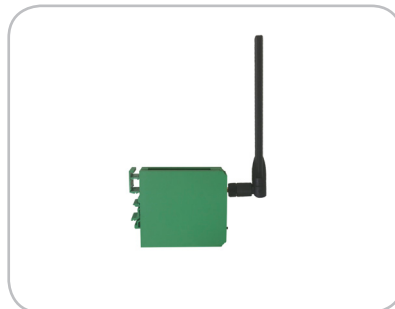
FEATURES & BENEFITS

- RS485 Field Connectivity
- 3G Frequency Bands with low power draw
- CDMA or GSM, LTE, Class 3
- FCC Part 15 Class B Compliant
- ATT and Verizon certified
- Simplify I/O management with innovative software
- Single or Multi-channel flow or level or any process monitoring
- Ships from factory pre-configured for customers application to ensure easy installation and setup
- 5 year warranty

DIN RAIL MOUNT



STAND ALONE



NEMA 4X ENCLOSURE



OPTIONAL DISPLAY



WEB PORTAL DATA

Web Portal Data Transfer via FTP to Customer Server.

Data Form: American Standard Code for Information Interchange (ASCII)
Viewable Data Format - .csv files

Example of transferred data file:

Data Record					
Date	HH:MM:SS	Sensor 1	Sensor 2	Sensor 3	Sensor 4
2/6/17	21:01:26	5	106.562	370.63	610.6
2/6/17	21:02:26	5.3125	106.25	370.31	610.6
2/6/17	21:03:26	5.3125	106.25	370.63	610.3
2/6/17	21:04:26	5	106.25	370.31	610.3
2/6/17	21:05:26	5.3125	106.25	370.31	610.3
2/6/17	21:06:26	5.3125	106.25	370.31	610.3
2/6/17	21:07:26	5	106.25	370.31	610.3
2/6/17	21:08:26	5	106.25	370.31	610
2/6/17	21:09:26	5	106.25	370.31	610.3
2/6/17	21:10:26	5	106.25	370	610
2/6/17	21:11:26	5	106.25	370	610
2/6/17	21:12:26	5	106.25	370	610
2/6/17	21:13:26	5	105.938	370	610
2/6/17	21:14:26	5	105.938	370	610
2/6/17	21:15:26	5	105.938	370	610
2/6/17	21:16:26	5	105.938	370	609.7
2/6/17	21:17:26	5	105.938	370	609.7
2/6/17	21:18:26	5	105.938	369.69	609.7
2/6/17	21:19:26	5	105.938	370	609.7
2/6/17	21:20:26	5	105.938	369.69	609.7