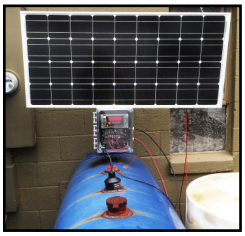
AccuSolar™

SOLAR POWERED SYSTEM



DESCRIPTION

FLO-CORP's AccuSolar™ Solar Powered Level Monitoring System monitors process conditions through wireless WiFi that communicate up to 1,500 feet to a base station PC. The Solar Panel powers the CONNEX 3D™ Monitor that provides bright, 6-digit LED indication, internal DC power supply for Ultrasonic or GWR transmitter power and advanced communications. Depending on the application requirements, Ultrasonic and Guided Wave Radar Level Transmitter technologies are available. The optional CONNEX 3D™ Wireless Monitoring device is also available which connects wirelessly to cellular networks and transmits alarms, inventory, battery status and GSM signal strength, all of which are available through FLO-CORP's website. Common uses for the AccuTank™ Solar Powered Level Monitoring System include monitoring in remote locations, processing and storage applications, oil & gas, energy, chemical / petrochemical, wastewater, pressure monitoring, temperature monitoring, the possibilities are endless.

FEATURES & BENEFITS

- Remote monitoring through TCP/IP Ethernet networks (optional cellular networks)
- E-mail reporting
- 24/7 online access to data through web portal
- Solar battery powered with 5 year lifespan
- Mobile ready access
- Variety of trigger points
- System arrives pre-calibrated for easy install

PRIMARY AREAS OF APPLICATION

- Chemical/Petrochemicals
- Energy
- Minerals and Mining
- Oil and Gas
- Pulp and Paper
- Wastewater
- Sticky and Dirty Media
- Pump Stations

HOW IT WORKS

1) Select your Level Transmitter Technology (Ultrasonic or Guided Wave Radar).

2) Connect your Level Transmitter to your Level Monitor

3) Monitor your application at the convenience of your computer or smart phone via cloud software.

SELECT

ULTRASONIC GWR

CONNECT

MONITOR

ULTRASONIC LEVEL TRANSMITTERS

The Ranger series of ultrasonic level transmitters supplies both short and long range, non-contacting level measurement. The quality and longevity of ultrasonic level transmitters on the market has become a problem in recent years. FLO-CORP recognizes this problem and offers only well-built and highly accurate transmitters. These sensors can be configured for level or distance in feet, meters, or a percentage of span. Offered with HART protocol, analog communication, 4-20mA output, and more, the speed and durability of these transmitters, cause them to stand out in the industrial market.

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.

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.

GUIDED WAVE RADAR LEVEL TRANSMITTERS

The Tracer series, of guided wave radar level transmitters, is a highly accurate product line. This contacting solution for level can be installed in otherwise complicated applications. The probe measures level, as opposed to a beam, allowing for an extremely small area of clearance around the probe. This is handy for mounting the transmitter right next to a tank wall or inserting the probe through a small opening where the width of a beam could not accurately measure level. And when it comes to response time, radar technology measures seventy times per second, so you know the level of your tank in real time. Our sturdy and accurate radar level transmitters are a solid choice for a wide variety of liquids and solids applications. We configure and calibrate every transmitter specifically to the customer's application before it ships from our factory for easy installation.

TRACER 1000™ GUIDED WAVE RADAR LEVEL TRANSMITTER

DESCRIPTION

Featuring TDR (Time Domain Reflectometry) technology, the Tracer 1000™ provides continuous level measurement and point level detection in liquids, with analog and switching output. This innovative device has almost no installation restrictions - it can be mounted in small tanks, tall and narrow nozzles and it measures precisely even with difficult tank geometries or close to interfering structures. Factory settings may be configured via HART® Communication protocol. Tracer 1000 is ideal for various types of processing and storage applications and has an exceptional performance in liquids with low reflectivity such as oils and hydrocarbons.

THROUGH THE AIR RADAR LEVEL TRANSMITTERS

TRACER AIR™ RADAR LEVEL TRANSMITTER

DESCRIPTION

The Tracer Air™ Radar Level Transmitter is accurate, easy to use and cost efficient. Featuring through the air technology, the radar level antenna emits narrow microwave pulses that transmit down the antenna. The signal comes into contact with the application surface then reflects back to the device. The Tracer Air™ is pre-calibrated at our facility for easy installation. Some typical applications include corrosive or non-corrosive liquid level monitoring, small tank or process vessel, bulk tote tanks and difficult measurement applications.

LEVEL MONITOR

FLO-CORP's patent pending CONNEX 3D™ is the industry's first process meter that connects standard analog inputs which can be displayed and transmitted via RS-485 Modbus™ serial remote I/O with TCP/IP Ethernet, Auxiliary Relays and standard isolated analog output. The CONNEX 3D provides the user flexibility to configure any analog input into a stand-alone or distributed monitoring and control system. The system provides an innovative solution for simple single channel monitoring to multi-drop, multi-channel monitoring that communicates over a RS-485 Modbus™ data highway or TCP/IP Ethernet for peer-to-peer or Master-Client communications. The CONNEX 3D has the added dimension of wired or wireless monitoring with or without local or remote field display for added versatility. All configurations of the monitoring system are provided with either PC software or cloud-based web portal for monitoring, data gathering, data reporting, alarm alerting via SMS and email, alarm historian for post-mortem analysis. FLO-CORP's cost-saving hardware and software design provides process control and factory automation solutions so you can seamlessly switch from other analog or RS-485 transmitting devices to the new CONNEX 3D monitoring and control solution.

CONNEX 3D™ FLEXIBLE PROCESS METER

FEATURES & BENEFITS

- RS-485 Field or Panel display interface, providing field and plant operations vital process information data
- Provides local and/or remote monitoring
- Simplify I/O management with innovative software
- Wide operating temperature range (-40 to 167ºF)
- Monitor any number of analog inputs
- Supports Ethernet TCP/IP Network Connectivity
- Flow totalize and grand totalize with remote reset
- Ships from factory pre-configured for customer's application to ensure easy installation and setup
- 5 Year Warranty

SOLAR POWERED PANEL

Converting sunlight into energy, solar panels are quickly becoming the most cost efficient way to generate electricity. Solar energy is not only sustainable but it is alway renewable and will never run out. Solar panels are the upward trend and have a multitude of benefits for the application, customer and environment

SOLPRO™ SOLAR POWERED PANEL

The SolPro™ solar powered panels are constructed with high efficiency polycrystalline solar cells and produce higher output per module than others in its class. This industrial grade module is an industry standard among various industry professionals.

FEATURES & BENEFITS

- UL-Approved AWG 18 cable is put into the fully sealed junction box (weather and UV resistant) material meet UL1703.
- (EVA) with TPT cushions the solar cells within the laminate and ensures the operating characteristics of the solar cells under virtually any climatic condition.
- Rigid anodized aluminum frame and low iron-tempered glass.
- Easily accessible grounding points on all four corners for fast installation.
- Proven junction box technology.

WIRELESS MONITOR OPTION

The CONNEX 3D™ product line monitors process conditions through cellular networks and satellites allowing you to access data anytime remotely through a web interface. The CONNEX 3D™ eliminates the need for conventional infrastructure giving you control of your application no matter where it is located. Common uses for CONNEX 3D™ include monitoring in remote locations, on mobile tanks, onsite when out of wifi range, and many more.

CONNEX 3D™ CELLULAR MODULE

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.