Ultrasonic Level Indicator

Snyder's Ultrasonic Level Indicator allows a simple and reliable non-contact level measurement of fluids in a vertical single wall or double wall polyethylene tank.

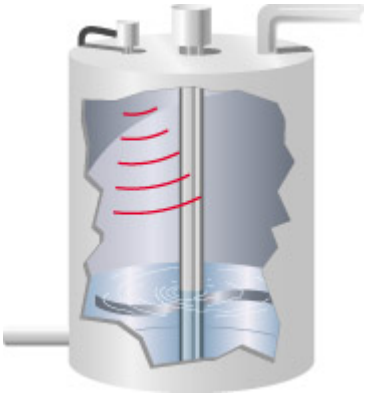
Ultrasonic sensors transmit pulsed waves of high frequency sound. If the sound wave meets a reflective object, such as liquid, it bounces back toward the sensor. The senor records the information and calculates the distance to the object.

Snyder's Ultrasonic Level Indicator system provides a visual display of liquid level in tank showing gallonage in measurements of hundreds of gallons along with 4-20 mA output for other alarm or control systems as well as four independent contacts capable of handling 10 amps each. Each contact can be programmed to operate in different opening and closing methods (7 modes). Contacts can be used to controls pumps, valves, alarms, etc.

plug-in cord shown in picture is not provided with the system

Features

- Provides switch, controller and transmitter capabilities.
- All plastic construction with NEMA 4X rating.
- Replacement of multi-point float, conductivity and pressure switches.
- Compact sensor with 4" dead band and beam width optimized for small tank applications.
- Range: 20 foot
- Dead band: 12 inches
- Signal output: 4-20 mA
- Supply voltage: 110 or 220 VAC and 24 VDC
- Contact amperage: 10 amps
- Number of contacts: 4
- Connection: 2" NPT standard or 1" NPT (optional)
- Accuracy: 0.25% of range (with no temperature gradient)



Benefits

- Easy to install
- Self-contained sensor is virtually maintenance free
- Internal temperature compensation
- Provides visual level, switch, controller and transmitter capabilities
- Replacement of multi-point float, conductivity and pressure switches
- Tank inventory monitoring and logistics improvement
- Process control – filling and emptying tanks

SENSOR

Performance

Beam Pattern
9° off axis
Temperature Compensation
Internal
Accuracy
±0.25% of detected range

Programming

Method
Interface with DCR Controller via APG Modbus Software
Functions
Trip point configurations
User selected units of measure

Connectivity

Controller
DCR series

Electrical

Wiring Connection
2 conductor shielded cable

Physical

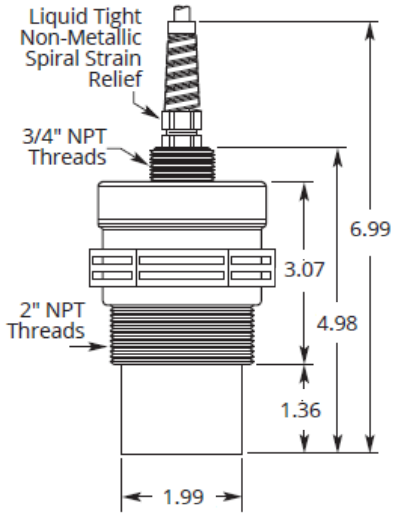
Housing
PC/PET blend

Transducers
Ceramic with PVDF face (models 2421 & 5111)

Environmental

Ratings
NEMA 6P, IP65, NEMA 12
Operating Temperature
-22° - 140°F (-30° - 60°C)

Dimensions: in.



DISPLAY / CONTROLLER

Performance

Outputs
4 Relays
4-20 mA
RS-485 (MODBUS/RTU) interface

Programming

Method
Programmable 4 Button Keypad
APG Modbus Software (RS-485)

Electrical

Supply voltage
100 - 240 VAC
24 VDC

Physical

Display
5 digit with 6 Character description field
Backlight

Connectivity

Inputs
MNU/MPX Sensor (RS-485)
DST Sensor
1 Dry contact
Method
Terminal Strips
Internet Connectivity
RST-5003

Environmental

Ratings
NEMA 4X, IP66
Operating Temp
-22° - 140° F (-30° - 60° C)