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 sensor 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.

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

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

- **Beam Pattern**
  - 9° off axis

- **Temperature Compensation**
  - Internal

- **Accuracy**
  - ±0.25% of detected range

- **Connectivity**
  - **Controller**
    - DCR series

- **Physical**
  - **Housing**
    - PC/PET blend
  - **Transducers**
    - Ceramic with PVDF face (models 2421 & 5111)

- **Electrical**
  - **Wiring Connection**
    - 2 conductor shielded cable

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

**DISPLAY / CONTROLLER**

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

- **Electrical**
  - **Supply voltage**
    - 100 - 240 VAC
    - 24 VDC

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

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

- **Physical**
  - **Display**
    - 5 digit with 6 Character description field
    - Backlight

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