

#5 – Inventory Management

Inventory monitoring by continuous level feedback to a local display depicting volumetric measurement.

- Goal is to know how much liquid is in the tank.
- System requires three components: Transmitter, Display & 24 VDC Power Supply.
- Display can also be a controller, PLC, SCADA, DCS, etc.
- Display can be located next to tank, remotely in a control room or both.
- Displays, when combined with relays, can control alarms, pumps & valves for high, low & automatic control functions.
- To span the output for interfacing to an actuated valve or VFD, use a display with a 4-20mA repeater output.

Solutions:



BONUS

Combine Inventory Management with Alarm or Auto Fill/Empty

Combining the above transmitters with a local display with relays add high alarms, low alarms, auto fill or auto empty applications to inventory monitoring.

- Goal is to directly control pumps, valves or alarms along with monitoring how much liquid is in the tank.
- Choose a display that is powered from 120/240 VAC or 24 VDC.
 - 120/240 VAC systems will typically have a 24 VDC power supply and require just the transmitter and the display.
 - Add 2 or 4 relays (3A) to directly switch most alarms and valves.
 - 24 VDC systems will require the transmitter, the display and a separate 24 VDC power supply.
 - Add 2 relays (1A) to directly switch most alarms (audible and visual).
- Display can be located next to tank, remotely in a control room or both.
- A repeater output can still be used to interface to an actuated valve or VFD or to continue the 4-20mA signal to a central controller (PLC, SCADA, DCS, etc.).

Solutions:



DataView
120/240 VAC Powered Display



DataLoop
24 VDC Loop Powered Display

Ordering EchoPod

Small & Bluk Tank Ultrasonic

UG -00 1-4

SENSOR RANGE

- 01 4.9' (1.5m)
- 03 9.8' (3.0m)
- 06 19.7' (6.0m)
- 12 39.4' (12.0m)


PROCESS MOUNT ⁽¹⁾

- 0 2" NPT
- 1 2" G (Metric)

USB ADAPTER

- 0 Without Fob
- 1 With Fob

(¹) 3" NPT or 3" G Mount (UG12 only)



Ordering EchoPulse

Pulse Radar

LR -0 01-

APPLICATION

- 15 Waste Radar/98.4' (30m)
- 20 Corrosive Radar/65.6' (20m)
- 30 Sump Radar/98.4' (30m)

STYLE

- 0 No Flange
- 3 Flange Mount

ANTENNA SIZE / BEAM ANGLE

- 1 N/A / 12° beam angle
- 2 2" / 18° beam angle ⁽²⁾
- 3 3" / 12° beam angle
- 4 4" / 8° beam angle

⁽²⁾ metallic/concrete tanks only

LR15 Series



1 1/2" NPT Mount

LR20 Series



3" or 4" Flange Mount

LR30 Series



Bracket Mount

Ordering EchoWave

Guided Wave Radar

LG1 - 0 3-0 -

RANGE

- 0 9.8' (3.0m)
- 1 18.0' (5.5m)

PROBE TYPE

- 0 Rod ⁽²⁾
- 1 Coaxial
- 2 Cable ⁽²⁾

PROCESS MOUNT


- 0 3/4" NPT (US)
- 1 3/4" G (metric)

FOB ADAPTER

- 0 Without Fob
- 1 With Fob

PROBE LENGTH

XXX Standard or custom length
⁽²⁾ metallic/concrete tanks only



Ordering DataView

120/240 VAC Powered Display

LI55 - 1

SUPPLY VOLTAGE


- 1 85-265 VAC
- 8 12-24 /VDC

CONFIGURATION

- 0 Meter only
- 2 Meter with 2 relays
- 4 Meter with 4 relays

REPEATER CONFIGURATION

- 0 No repeater
- 1 4-20mA repeater



Ordering DataLoop

24 VDC Loop Powered Display

LC23-1 1

CONFIGURATION

- 0 Display only
- 2 Display with 2 relays

REPEATER

- 0 No repeater
- 1 4-20mA repeater

