



**Level & Flow
Products
for the Water
& Wastewater
Industries**





Pulsar®
Model R95
Pulse Burst Radar
Transmitter

Description: Loop-powered 4–20 mA level transmitter provides accurate measurement even in heavy vapors; shifting dielectric and varying media.

Measurement Principle:
 Pulse Burst Radar

Applications:
 Liquids and slurries, hydrocarbons to water-based media, process or storage vessels

- Features:**
- Pulse Burst patented technology
 - Quick connect/disconnect antenna coupling allows vessel to remain sealed
 - Intuitive false target setup
 - Reliable tracking of fast rates of change
 - 65-foot measurement range
 - General Purpose, Intrinsically Safe, Explosion Proof and Non-Incendive approvals

Options:
 HART®, horn or dielectric rod antenna, all-plastic antenna, antenna extensions

Horizon™
Model 704
Mid-range GWR
Transmitter

Description: A 24 VDC, loop-powered compact level transmitter offering simple configuration with three push buttons and a 2-line x 8 character LCD.

Measurement Principle:
 Guided Wave Radar (TDR)

Applications:
 Wet wells, clear wells, sumps, scum pits, chemical feed tanks, fuel storage, bulk solids (lime), sodium hypochlorite, tar, open channel flow, reservoir level

- Features:**
- Two-wire, loop-powered
 - 4–20 mA with HART
 - 2-line x 8 character display
 - Push-button setup
 - Rigid probe lengths to 192 inches
 - General Purpose, Intrinsically Safe, Explosion Proof and Non-Incendive approvals

Options:
 Housing type, HART, probe types, process connections

Eclipse®
Model 705
Enhanced GWR
Transmitter

Description: Loop-powered 4–20 mA level transmitter provides accurate measurement even in foam, shifting dielectric and varying media.

Measurement Principle:
 Guided Wave Radar (TDR)

Applications:
 Wet wells, clear wells, sumps, scum pits, chemical feed tanks, fuel storage, bulk solids (lime), sodium hypochlorite, tar, open channel flow, reservoir level

- Features:**
- Two-wire, loop-powered
 - 4–20 mA with HART
 - 2-line x 8 character display
 - Push-button setup
 - 20-point custom strapping table for flow measurement or volumetric
 - Rigid probe lengths to 240 inches
 - Flexible probe lengths to 75 feet

Options:
 LCD display, HART, probe types, process connections

Thermatel®
Models TD1/TD2
Flow and Level
Switch

Description: Reliable flow/level switch detects changes in heat transfer due to changes in media or changes in flow velocity.

Measurement Principle:
 Thermal Dispersion

Applications:
 Pump protection, blowers, progressive cavity pumps, hi-low point flow-flow & no flow, low flow seals of rotating equipment, exhaust flow/inlet flow, Leak detection chemical feed pumps, lubrication systems, eye wash stations

- Features:**
- Twin tip or spherical tip designs
 - Monitors liquids or gases with the same sensor
 - Excellent low-flow sensitivity
 - Fast response time
 - Adjustable set points, and time delay
 - Easy installation and adjustment

Options:
 Relay type, input voltage, output type, probe type, process connection

Thermatel
Model TA2
Mass Flow
Transmitter

Description: A powerful, microprocessor-based flowmeter that provides reliable and accurate mass flow measurement of air and gases.

Measurement Principle:
 Thermal Dispersion

Applications:
 Aeration lines, odor control, digester gas, flare lines

- Features:**
- 4-20 mA output – can be set for active or passive operation
 - Compact explosion proof/NEMA 4X enclosure
 - Advanced diagnostics check condition of probe, electronics, and wiring
 - Rotatable display module displays flow rate, temperature, totalized flow, plus diagnostic messages

Options:
 Input voltage, HART, calibration type, process connections



Echotel®
Model 338
Two-Wire
Transmitter

Echotel
Model 344
Full-featured
Transmitter

ATLAS™
Magnetic Level
Indicator from
Orion Instruments

F50 Series
Disc-Actuated
Flow Switch

A10 Series
Top Mounted
Displacer Switch

Description: A two-wire, loop-powered non-contact ultrasonic transmitter for continuous measurement of liquid level, volume, or open channel flow.

Description: A full-featured level transmitter and controller for continuous measurement of level, volume, or open channel flow.

Description: Simple, rugged, reliable and cost-effective MLI precision engineered with many basic features.

Description: Highly reliable devices utilized to sense the start or stop of flow in horizontal closed pipes.

Description: Highly reliable one, two or three stage level switches offering narrow and wide level differentials.

Measurement Principle:
Non-Contact Ultrasound

Measurement Principle:
Non-Contact Ultrasound

Measurement Principle:
Buoyancy/Magnetic Coupling

Measurement Principle:
Inline Flow Disc

Measurement Principle:
Buoyancy/Displacement

Applications:
Sumps, sand filters, basins, digester covers, tanks, open channel flow, bar screens

Applications:
Sumps, chemical storage tanks, clarifiers, wet wells, open channel flow, clear wells, grit tanks

Applications:
Sodium hypochlorite, ferrous chloride, polymer tanks, aqueous ammonia

Applications:
Pump staging or failure, pipeline flow, pump inlet flow protection

Applications:
Wells, sumps, water storage tanks, chemical storage tanks, feed storage tanks or tanks with media specific gravities .4 to 2.4

- Features:**
- Plug-in 6-digit alphanumeric LCD module with custom graphics display
 - 4–20 mA output with 600 load
 - 80 kHz transducer with 20' measurement range
 - Narrow, 5-degree beam angle
 - Advanced digital signal processing

- Features:**
- 35' measurement range
 - 4–20 mA isolated output
 - False-target buffering of tank obstructions
 - Large 16-character, alphanumeric display
 - Powerful transducer with hazardous approvals
 - Front panel keypad programming
 - Password protection
 - Self-diagnostics

- Features:**
- Immediate and accurate response to level changes
 - Rotatable rail for optimal viewing
 - Rugged construction
 - Shuttle or all metal flags
 - Several materials of construction, including plastics
 - Single chamber design available in many configuration styles

- Features:**
- Actuates on increasing or decreasing flow
 - No calibration required
 - Bronze or stainless steel construction
 - Bodies for flow lines from 3/4" to 2"
 - Pressures to 1150 psi
 - Temperatures to +750° F

- Features:**
- Field adjustable differential and set point(s)
 - Numerous displacer/set point arrangements
 - Single, dual or triple switch/stage controls
 - Narrow, wide or combination of differentials
 - Variety of displacer, cable and wetted materials
 - Variety of flanged or threaded mountings

Options:
None

Options:
Input power, mechanical totalizer, 31-day data logger, heater with thermostat

Options:
DPDT micro-switches, reed type SPDT bi-stable switches, reed chain type transmitter

Options:
Switch type

Options:
Housing type, switch type, extended displacer cable



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