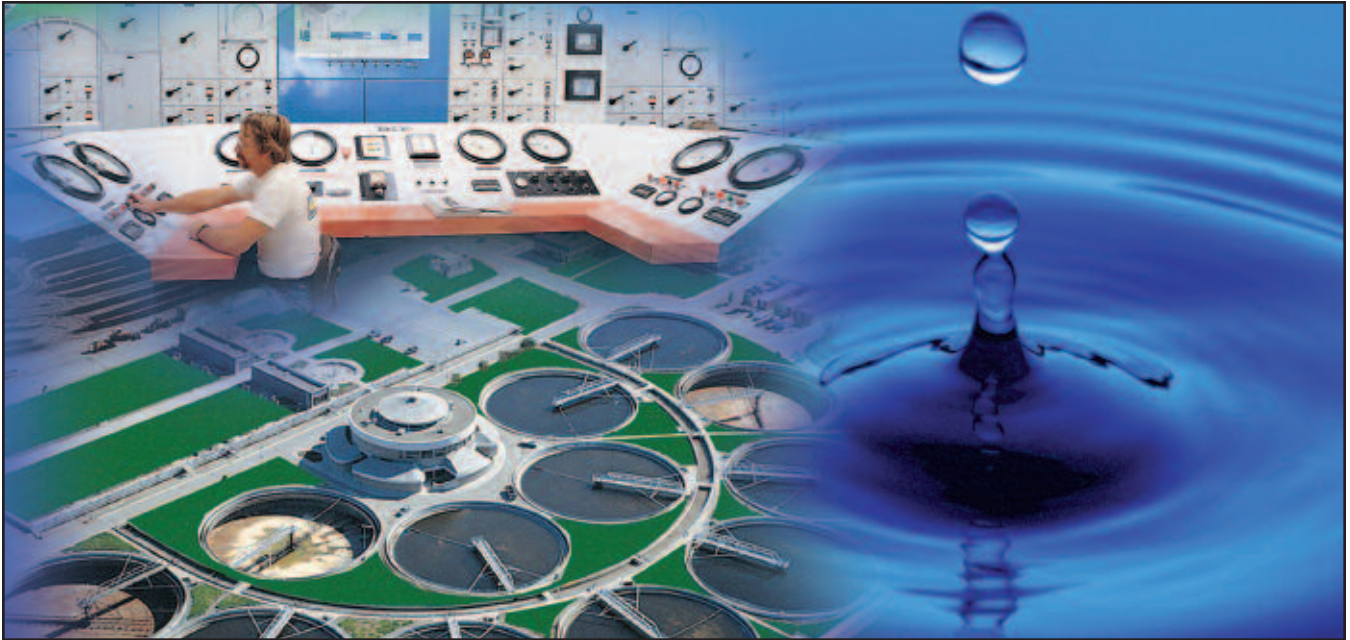


Product Line Quick Reference



Level & Flow Products for the Water & Wastewater Industries





Radar

Model R82 Radar Transmitter

Description: An economical loop-powered 4–20 mA level transmitter in a compact single compartment housing.

Measurement Principle:
Pulse Burst Radar

Applications:

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

Features:

- 26 GHz frequency
- 24 VDC, loop-powered
- 4–20 mA with HART
- 40' measurement range
- Full vacuum to 200 psig; -40° to +200° F
- Configure with 2-line x 16-character display, 4-push-button keypad
- Adjustable beam pattern without removing the transmitter from vessel
- General Purpose and Intrinsically Safe

Options:

Cast aluminum or Lexan enclosure, 2" or 8" antenna, polypropylene or Tefzel® antenna material



Pulsar®

Model R95 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:

- 6 GHz frequency
- 24 VDC, loop-powered
- 4–20 mA with HART®
- Quick connect/disconnect antenna coupling allows vessel to remain sealed
- Intuitive false target setup
- Reliable tracking of fast rates of change
- 65' measurement range
- General Purpose, Intrinsically Safe, Explosion Proof and Non-Incendive approvals

Options:

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



Eclipse®

Model 705 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 Switches

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:

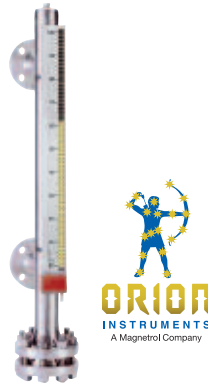
Aeration lines, odor control, digester gas, flare lines

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 355
Two-Wire
Transmitter

Echotel
Models 344/345
Full-featured
Transmitters

ATLAS™
Magnetic Level
Indicator from
Orion Instruments

F50 Series
Disc-Actuated
Flow Switch

A10 Series
Top Mounted
Displacer Switch

Description: Loop-powered, integral mount, ultrasonic transmitter for 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 60kHz Ultrasound

Measurement Principle: Non-Contact 38kHz 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:
Two-wire, loop-powered
• 4–20 mA with HART
• PACTware PC program
• 20' measurement range
• Temperature compensated echo rejection profile
• Dynamic baseline noise compensation
• Generic discharge open channel flow equation
• Resettable and non-resettable flow totalizers

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: Cast aluminum or Lexan enclosure, polypropylene or Kynar® Flex transducer

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



Product Line Quick Reference

Level & Flow Products for the Water & Wastewater Industries

CORPORATE HEADQUARTERS

5300 Belmont Road • Downers Grove, Illinois 60515-4499 USA
Phone: 630-969-4028 • Fax: 630-969-9489
magnetrolenvironmental.com • info@magnetrolenvironmental.com

EUROPEAN HEADQUARTERS

Heikensstraat 6 • 9240 Zele, Belgium
Phone: 052 45.11.11 • Fax: 052 45.09.93

BRAZIL: Av. Dr. Mauro Lindemberg Monteiro • 185-Jd. Santa Fé, Osasco • São Paulo CEP 06278-010

CANADA: 145 Jardin Drive, Units 1 & 2 • Concord, Ontario L4K 1X7

CHINA: Room #8008 • Overseas Chinese Mansion • 129 Yan An Road (W) • Shanghai 200040

DEUTSCHLAND: Alte Ziegelei 2-4 • D-51491 Overath

DUBAI: DAFZA Office 5AE 722, P.O. Box 293671 • Dubai, United Arab Emirates

INDIA: C-20 Community Centre • Janakpuri, New Delhi 110 021

ITALIA: Via Arese, 12 • 20159 Milano

SINGAPORE: No. 48 Toh Guan Road East #05-123 • Enterprise Hub • Singapore 608586

UNITED KINGDOM: Regent Business Centre • Jubilee Road • Burgess Hill, West Sussex RH15 9TL

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