DREXELBROOK® / AMETEK®

LEVEL MEASUREMENT SOLUTIONS

Level and Analytical Solutions

Precision • Protection • Performance

AMETEK-Measurement.com

DREXELBROOK®

AMETEK®

We pledge to always provide our customers with the best possible recommendation using the measurement technology that is best suited for the application.

Today, Drexelbrook is a part of the AMETEK® Level Measurement Solutions business unit, a part of AMETEK Inc.

BRAND OVERVIEW

Drexelbrook® is a trusted and long-established brand in the field of level and analytical measurement instrumentation, known for its innovation, reliability, and application-specific solutions. Founded over 50 years ago, Drexelbrook pioneered RF Admittance technology, which remains a cornerstone of its product offerings today along with Ultrasonic, Magnetostrictive, and Water Cut (BS&W) Measurement.

Serving industries such as chemical processing, oil and gas, water and wastewater, food and beverage, pharmaceuticals, mining, and power generation, Drexelbrook combines deep application knowledge with a broad portfolio of technologies to meet the unique needs of every customer ensuring accurate and dependable level and water cut measurements in even the most challenging environments.

As part of AMETEK Level Measurement Solutions, Drexelbrook is backed by a global network and a commitment to innovation, quality, and customer success. Whether you're managing complex industrial processes or ensuring compliance in critical applications, Drexelbrook delivers precision, performance, and peace of mind.

Drexelbrook delivers application-specific technologies that are easy to install, require minimal calibration, and are built to withstand the harshest environments. Our extensive line of level measurement / analytical technologies are trusted for their accuracy, durability, and ease-of-use, helping customers increase uptime, improve safety, optimize efficiency and save money. With Drexelbrook, you're not just buying a sensor—you are investing in reliable performance, tailored support, and measurable ROI.

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RF Admittance

Drexelbrook's RF Admittance technology delivers industry-leading performance in continuous and point level measurement, offering a significant upgrade over traditional RF Capacitance systems. By leveraging Cote-Shield™ technology, Drexelbrook sensors actively reject the effects of conductive coatings and buildup—ensuring long-term accuracy and reliability in even the harshest process environments.

Drexelbrook offers the widest range of probe configurations and materials in the industry, engineered to handle liquids, slurries, solids, foams, and emulsions, including interface and reverse interface measurements. With the highest capacitance range and coating rejection capabilities on the market, they deliver unmatched sensitivity and stability. Additionally, our sensors are rated for the highest temperature and pressure conditions in their class and in some cases can be mounted vertically, horizontally, or at an angle—and even custom-bent to fit tight or complex installations. Compared to traditional capacitance systems, Drexelbrook offers select systems suitable for plastic, spherical, or non-linear tanks with integrated ground reference probes to make the measurement. This flexibility makes them ideal for both standard and highly specialized applications.

Beyond level measurement, Drexelbrook's RF Admittance technology is also a proven solution for accurate water cut measurement, providing real-time insight into water content for critical Oil & Gas applications. This dual capability makes it a powerful tool for upstream through downstream operations, as well as other industries requiring a precision water cut measurement.

Ultrasonic

Drexelbrook Ultrasonic Level Sensors offer a dependable, non-contact solution for continuous level measurement in open tanks, lift stations, sumps, and water & wastewater treatment applications. Using time-of-flight technology, these sensors emit ultrasonic pulses and measure their echo return time to provide accurate, real-time level data—without ever touching the process media. This makes them ideal for environments where maintenance and contamination must be minimized.

In addition to continuous level monitoring, Drexelbrook also offers ultrasonic point level switches that are contact-based and designed for reliable detection of high or low level conditions in clean, non-coating liquids. These rugged sensors are well-suited for applications where simple, direct level control is needed. While ultrasonic technology performs exceptionally well in standard conditions, foam, vapor, or rapid temperature changes can affect signal quality.

Magnetostrictive

Drexelbrook Magnetostrictive Level Transmitters are designed for high-precision continuous level in clean liquid applications. Engineered for both OEM integration and end-user deployment, these systems are ideal for custody transfer, inventory control, leak detection, and multi-point temperature profiling, especially in the Oil & Gas industry including underground and above ground storage tanks. Unlike traditional rigid designs, Drexelbrook also offers flexible probe options that simplify installation in tall or narrow tanks and allow for easier handling and transport.

Combined with a wide selection of float configurations, our transmitters can be tailored for total level, and/or interface level, or temperature measurement with exceptional accuracy and minimal drift. With a robust, contact-based design, Drexelbrook magnetostrictive systems deliver long-term stability and repeatable performance in calm, clean, non-coating liquids.

AMETEK Level Measurement Solutions delivers high-value, differentiated technologies designed for the most demanding industrial environments.

YOUR PROCESS. OUR EXPERTISE. PERFECTLY MEASURED.

For over 50 years, Drexelbrook has delivered precision level and analytical measurement solutions trusted across industries. Our technologies are built to perform—no matter the challenge.

ThePoint

ThePoint Line Powered and Loop Powered level switches are reliable, maintenance-free solutions for point level detection in a wide range of industrial and sanitary applications. Suitable for Liquids, Slurries, Granulars, and Interface detection, both models feature Drexelbrook's Cote-Shield circuitry to eliminate false readings from coatings and have no moving parts, ensuring long-term durability. The Line Powered version offers a DPDT relay output and broad voltage compatibility, while the Loop Powered version provides a two-wire current output making both options ideal for most of your point level and overfill protection needs. Both are suitable for extreme conditions and support 3A-approved sanitary probes, making them versatile and cost-effective.

Key Features

All Versions:

- Cote-Shield circuitry ignores process coatings
- Auto-Calibration Feature – Application Dependent
- Field Selectable Calibration Modes
- No moving parts = low maintenance
- Operates in extreme conditions: Cryogenic* to +1,500 °F (+815 °C), Vacuum to 4,000 psi (276 bar)
- Compatible with select 3A-approved sanitary probes
- FM. FMc, ATEX, IECEx Approved

Line Powered Version:

- DPDT relay output
- Wide power range: 19–250 VAC / 18–200 VDC (auto-detecting)

Loop Powered Version:

- Two-wire current output (8mA/16mA configurable)
- Power supply: 13–30 VDC

**** Consult factory for cryogenic temperatures and/or process conditions outside specified ranges.***

The Intellipoint

The IntelliPoint series is Drexelbrook's most advanced and versatile RF point level switch. Available in both Line Powered and Loop Powered models, IntelliPoint features AutoVerify and Certify self-diagnostics for continuous system monitoring and reliability. It automatically calibrates upon installation and includes Cote-Shield circuitry to ignore coatings on the probe. Both models are approved for hazardous areas and with select configurations available with SIL2 certification.

Key Features

All Models

- AutoVerify and Certify self-diagnostics for system reliability
- Cote-Shield circuitry ignores process coatings
- Available with different calibration modes
- No moving parts = low maintenance
- Wide application range: cryogenic* to +2,000 °F (+1093 °C), vacuum to 10,000 psi (689 bar)
- Compatible with select 3A-approved sanitary probes
- FM. FMc, ATEX, IECEx Approved

Line Powered Model

- Power: 85–250 VAC / 21–100 VDC (auto-detecting)
- Output: 2 SPDT relay switches

Loop Powered Model

- Power: 13–30 VDC
- Output: 8 mA/16 mA/22 mA or 5 mA/8 mA/16 mA (configurable for alarm/normal/fault)

**** Consult factory for cryogenic temperatures and/or process conditions outside specified ranges.***

Z-Tron IV

The Z-Tron IV is a FM General Purpose approved on/off level switch designed for reliable material level detection across a wide range of industrial applications; where a simple, low-cost solution is preferred.

Z-tron™ IV
Z4-Series

Key Features

- Relay Output: DPDT (Double Pole Double Throw)
- Manual Calibration
- Power Requirements:
  - AC Units: 95–145 VAC, 50/60 Hz, 2W (field-adjustable)
  - DC Units: 19–29 VDC, 2W
- Operating Point Range: 0–80 pF (adjustable via 20-turn potentiometer, 4 pF per turn)
- Extended Range: Possible with external pad capacitor (1:1 pad ratio)

Multipoint II

The MultiPoint II is a nonhazardous area approved level switch designed for applications requiring multiple control points, such as sump level control and batch processing. It supports up to three control points along a single vertical probe, with one point configurable for differential measurement (ideal for pump on/off control). The unit is maintenance-free, with no moving parts, and can be installed without emptying the vessel — multipoint field calibration required.

Key Features

- Up to three control points (one with adjustable differential)
- No moving parts = low maintenance
- Top-mounted installation—no need to empty vessel
- Operating range: Up to 200 feet (61 m) (depending on probe)
- Power: 95–145 VAC or 205–255 VAC, 1 watt
- Temperature range: -40 to +140 °F (-40 to +60 °C)
- Relays: Three DPDT (one with 0–90 sec delay, one on/off, one differential)

Veri-Gap

The VeriGAP is a line-powered ultrasonic gap switch designed for reliable high and low point level detection in clean, non-coating liquid applications. It operates independent of viscosity, density, pressure, temperature, or electrical properties, and requires no calibration. With AutoVerify and Certify diagnostics, continuous system integrity is ensured.

Key Features

- Ultrasonic technology: Unaffected by process variations
- AutoVerify & Certify: Continuous self-diagnostics for safety
- No moving parts = low maintenance
- High durability: Operates up to +350 °F (+177 °C) and 1,000 psi (69 bar)
- Dual- or Single-Gap Options
- 316SS or Hastelloy C Wetted Parts
- Sanitary grade sensor options available
- Output: DPDT relay
- FM Approved

Universal V Pro & Lite

The Universal V™ Series is Drexelbrook's fifth-generation RF continuous level measurement system, offering enhanced reliability, global hazardous area approvals, and backward compatibility with previous models (Universal III, IV, Lite, and RCT). Suitable for conductive and insulating liquids, slurries, and interface measurements, it features auto-ranging, improved firmware, and a standard display/keypad for easy setup and operation.

Key Features

- One-time, two-point calibration – set it and forget it
- Cote-Shield (45 deg Phasing) circuitry ignores process coatings
- No moving parts = low maintenance
- Immune to tank obstructions and nozzles
- 2-wire, 4–20 mA output with HART protocol
- Measurement range: 1" to 800'+ (25 mm to 244 m)*
- No dead zones or blocked measurement areas
- FM, FMc, IECEX, ATEX Approved

Pro Model

- Cote-Shield™ (45 degree Phasing) circuitry ignores process coatings
- Wide measurement span: 1" to 800' (25 mm to 244 m) (Application & Probe Dependent)
- Ideal for conductive, insulating, and coating-prone materials

Lite Model

- Entry-level version without Cote-Shield
- Suitable for non-coating liquids
- Typical range: up to 20 feet (6 meters)

Universal II

The Universal II is an analog two-wire RF admittance level transmitter designed for reliable, low-maintenance level measurement in liquids, slurries, granular, and interface applications. The system uses manual calibration and provides a 4–20 mA output with Cote-Shield circuitry to prevent false readings from material buildup.

Key Features

- Output: Analog 4–20 mA, No local display
- Power: 11.5–50 VDC
- Intrinsically safe when powered from an approved source
- Remote mounting up to 75 feet (23 meters)
- Optional 20 ms response time (Unapproved)
- FM Approved

**** Consult factory for longer insertion lengths.***

Universal V Pro & Lite Models
Probe Selection

The Universal V™ Series has one of the richest and most versatile probe selections in the industry. Over 125 probes can be selected as a standard option in the Universal V model number and many special probes can be customized upon request. Drexelbrook's bonded probe construction ensures the highest probe quality and measurement reliability. This table summarizes a few commonly used probes. Our application engineers can assist you with the selecting the right probe for your application.

Probe Model	Typical Applications	Construction / Wetted Material	Maximum Temperature / Pressure
700-0001-022	General purpose, non-coating conductive liquids, low viscosity	⅜" OD, PTFE covered rod	100 °F @ 1000 psi 300 °F @ 500 psi
700-0001-026	General purpose, non-coating insulating liquids low/medium viscosity for non-linear ground reference	⅜" OD PTFE covered rod with 1.66" OD perforated carbon steel concentric shield	100 °F @ 1000 psi 300 °F @ 500 psi
700-0001-344	Conductive or insulating corrosive liquids with linear ground reference	⅜" OD PFA insulated SealTyte™ rod with PFA faced flange	100 °F @ 1000 psi 350 °F @ 500 psi
700-0002-027	Heavier coating conductive liquids or Interface measurement	½" FEP insulated rod	100 °F @ 1000 psi 300 °F @ 500 psi
700-0002-037	Heavier coating, liquids, slurry, interface	½" OD PVDF insulated rod	100 °F @ 1000 psi 250 °F @ 500 psi
700-0002-057	Coating liquids and slurries and interface. Good strength and abrasion resistance	0.84" OD PVDF insulated rod	100 °F @ 1000 psi 250 °F @ 500 psi

Probe Model	Typical Applications	Construction / Wetted Material	Maximum Temperature / Pressure
700-0002-224	Electrostatic desalters, High temp, remote only	⅜" OD, PTFE insulated rod	100 °F @ 1000 psi 450 °F @ 500 psi
700-0005-018	Flex cable for coating liquids, slurries, granulars and interface. Agitated service when anchored	5/16" PVDF insulated flexible cable	100 °F @ 1000 psi 250 °F @ 500 psi
700-0005-054	Coating applications, thin cable	0.093" OD PFA insulated cable	300 °F @ 500 psi
700-0005-085	With integral ground for non-metallic vessels, coating liquids	0.185" OD FEP insulated flexible cable	200 °F @ 200 psi
700-1202-001	Insulating liquids, and solids, general purpose, remote only	⅜" OD 316L SS with PEEK insulation	100 °F @ 1000 psi 450 °F @ 200 psi

A wide array of process connections are also available including NPT, BSP, Flange (ANSI, DIN, JIS), Tri-clamp, Grayloc and much more to comply with international standards that fit your applications. More wetted materials such as 316LSS, Hastelloy C-276, Monel, Alloy 20, PTFE, FEP, PFA grade Teflon®, Urethane, Polyurethane, PVDF, and other commercially available materials on request.

DM330

The DM330 is an analog two-wire, loop-powered magnetostrictive level transmitter designed for intrinsically safe (I.S.) installations in industrial environments. It provides high-accuracy liquid level and interface measurements using a process-compatible float and machine tool positioning technology. A sanitary version of the DM330 is also available, designed for food and beverage applications. It features 3A approval and tri-clamp fittings for hygienic installations.

Key Features

- Output: 4–20 mA, intrinsically safe
- Accuracy: ±0.1% of range (up to 40 ft (12 meters))
- No calibration required
- Low-clearance design: Electronics integrated in a ⅝" sensing tube
- Power: 13.5–30 VDC
- Temperature: -4 to +212 °F (-20 to +100 °C)
- Pressure (probe only)*:
  - Rigid 316 SS rated Up to 1000 psi (69 bar)
  - Flexible PVDF model: Up to 150 psi (10 bar)
- Mounting: Rigid (316SS) or flexible (PVDF) options with compression fitting option

Sanitary Model

- Sanitary design: 316SS with 180 or 240 grit finish
- 3A Sanitary Standards Council approved
- Temperature: -4 to +158 °F (-20 to +70 °C)

DM231

The DM231 is a Modbus based, high-accuracy, explosion-proof magnetostrictive level transmitter designed for total level, interface level, and temperature measurement in hazardous environments, ideal for above and underground storage tanks.

Key Features

- Output: Modbus RTU (No Display)
- Accuracy: ±0.01%
- Span: 20 to 288 inches (508 to 7315 mm)
- Sensor: Rigid 316SS with single or dual NPT mounting
- Temperature Sensing: 1 or 5 sensors distributed evenly along the probe
- Pressure Rating (probe only)*: Up to 1000 psig (69 bar)
- Power: 10–30 VDC
- Temperature Range:
  - Process: -40 to +257 °F (-40 to 125 °C) (±0.5° C)
  - Ambient: -40 to +185 °F (-40 to +85 °C)
- Certifications: FM approved for Class I Div. 1, Zone 1
- Installation: Easy to install, no calibration required

**** Probe ratings are independent of float ratings. Float ratings vary depending on style of float. Consult factory for individual float ratings.***

Total Tank Level System

The Total Tank Level System (TLS) is a high-accuracy magnetostrictive level transmitter designed for multi-variable tank measurements, including total level, interface level, temperature, and volume. It is suitable for hazardous area installations with explosion-proof and intrinsically safe options.

Key Features

- Outputs:
  - Modbus RTU (single housing)
  - Dual 4–20 mA and HART (dual-compartment housing with display)
- Accuracy: 1 mm
- Probe Types: Rigid 316SS or Ultra-Flex PVDF (up to 50 ft probe dependent)
- Mounting: Single or dual NPT
- Certifications: FM, FMc, IECEX, ATEX Approved
- Power: 10–30 VDC
- Pressure Rating (probe only)*: Up to 1000 psi (69 bar)
- Temperature Range: -40 to +125 °C (-40 to +257 °F) probe dependent
- Software: STExplorer for configuring 4–20 mA/HART versions
- No calibration required, easy installation

**** Probe ratings are independent of float ratings. Float ratings vary depending on style of float. Consult factory for individual float ratings.***

USonic-11/21

The USonic is a non-contact ultrasonic level transmitter designed for accurate and affordable measurement of level, distance, volume, and open channel flow in liquids and slurries. It features SMART GAIN™ circuitry to automatically ignore false echoes from tank obstructions and is suitable for hazardous locations (Class I, Div. 1). The system supports two-wire 4–20 mA with HART and allows for easy configuration via a menu-driven display, including bench calibration without moving process levels.

Key Features

- Plastic Valox Housing or Aluminum XP Housing
- SMART GAIN™: Ignores false echoes from tank internals
- High accuracy: ±0.15% of range (up to 30 feet (9 meters))
- Output modes: Level, Distance, Volume, Flow
- Power supply: 19–30 VDC (minimum 19 VDC at 4 mA)
- Hazardous area approved: Intrinsically safe or explosion-proof (Class I, Div. 1)

USonic-R

The USonic-R is a dual, remote, non-contact ultrasonic-level transmitter designed for accurate measurement of liquids and slurries. It supports applications such as level, distance, volume, and open channel flow monitoring including submerged flow applications.

Key Capabilities

- Dual-channel system: Enables independent, sum, or differential measurements
- Output options: 4–20 mA and Modbus with internal characterizations
- User-friendly interface: Menu-driven display with selectable units (in, ft, mm, cm, m)
- SMART GAIN technology: Automatically filters out false echoes from tank obstructions
- High accuracy: ±0.15% of range (up to 30 feet (9 meters)
- Power options: 120/240 VAC or 24 VDC
- Programmable features: Six relays for control tasks like pump alternation and batch sampling
- Hazardous area compliance: Wall-mounted controller for Class I Div. 2, Zone 0; sensors rated for Class I Div. 1

Universal V Water Cut Meter

The Drexelbrook Universal V CM is a high-performance water cut monitor designed for precise, real-time measurement of water content in oil across a wide range of applications. Leveraging advanced RF Admittance technology, it offers exceptional accuracy even in challenging conditions, with optional integrated temperature compensation and optional density compensation add-on modules to maintain reliable readings despite fluid property changes.

The Universal V CM supports multiple mounting configurations—including insertion and in-line, spool style probes—and operates under extreme conditions, withstanding up to 1500 psi (103 bar) and +450 °F (+232 °C) (probe dependent), spool piece rated to 1000 PSI. Its Perm-A-Seal sensing element eliminates the need for epoxy coatings, reducing maintenance, while the Cote-Shield feature ensures measurement integrity by ignoring probe buildup.

With intuitive local and remote configuration & calibration via HRTWin or STExplorer software, and a 3-year warranty, the Universal V CM delivers a robust, low-maintenance solution for applications such as LACT units, separation vessels, and pipeline monitoring. Its value lies in its durability, accuracy, ease-of-use, and adaptability, making it a trusted choice for midstream and downstream oil operations.

Key Features

- **Measurement Range**
  Standard CM
  - 0–50% in light oil
  - 0–80% in heavy oil

  Temperature Compensation
  - 0–30% in light & heavy oil

  Density Compensation
  - 0–5% in light & heavy oil
- **Mounting Options**
  Insertion, spool piece probes, NPT, and Flanged
- **Pipe Sizes**
  - Insertion: Minimum 1½" Pipe
  - Spool: 2", 3", & 4" Pipes
- **Temperature & Pressure**
  - Insertion Style Probes
    - Up to +450 °F (+232 °C)
    - Up to 1500 psi (103 bar)
  - Spool Piece
    - Up to +450 °F (+232 °C)
    - Up to 1000 psi (103 bar)
- **Technology**
  - Cote-Shield circuitry ignores process coatings
  - Perm-A-Seal: No epoxy, low maintenance
  - Capacitance-based: Measures dielectric changes to determine water cut
- **Electronics**
  - Built-in LCD/keypad
  - Remote configuration via HRTWin or STExplorer (DCM)
  - Single point field calibration required
- **Certifications**
  FM, FMc, IECEX, ATEX Approved
- **Applications:**
  - LACT units
  - AWT systems
  - BS&W monitoring
  - Separation vessels
  - Pipeline slug detection
  - Truck loading & unloading
  - Machinery lube oil monitoring
  - Desalter inlet and outlet

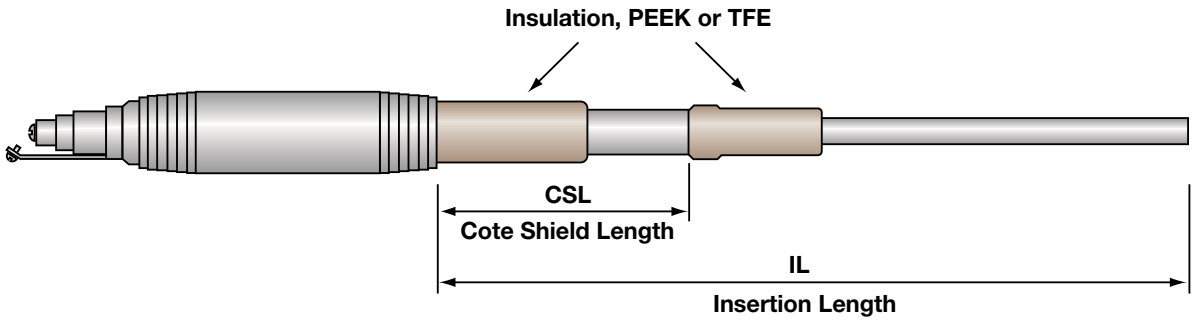
Universal V
Water Cut Meter (continued)

Sensing Element Sizing

The Cut Monitor sensing element varies with pipe size. The larger the pipe diameter size, the longer the sensing element active length must be. The Cote-Shield length is sized so the sensing element is fully extended into the fluid beyond nozzles and elbows. Below are some standard look-up tables.

700-1202-0XX Series Sensing Elements		
Pipe Size	**Cote-Shield Length**	**Insertion Length**
1½"	3.5"	18.25"
1½"	6"	20.75"
1½"	10"	24.75"
2"	3.5"	21.25"
2"	6"	23.75"
2"	10"	27.75"
3"	3.5"	25.5"
3"	6"	28"
3"	10"	32"
4"	6"	31.125"
4"	10"	35.125"
6"	6"	35.375"
6"	10"	39.375"
8" and >	10"	25.5"
In Tank	3.5"	19"
In Tank	6"	21.5"
In Tank	10"	25.5"

Sensing Element Dimensions



Drexelbrook Specialty Systems

Drexelbrook's specialty systems are engineered to solve the toughest measurement challenges in the most demanding environments. Whether you are dealing with aggressive media, confined spaces, or critical safety applications, our sensors deliver unmatched reliability and performance.

Benefits Include:

- Proven performance in oil/water separation, solids detection, and sanitary processes
- Flexible installation options for retrofit and new systems
- Industry certifications for hazardous and hygienic environments
- Seamless integration with existing control systems

From floating roof tanks to plugged chute detection, Drexelbrook's specialty solutions help you maintain uptime, reduce maintenance, and ensure process integrity.

Universal V Pro — Desalter Interface Level System

The Drexelbrook Universal V Pro Desalter Interface Level System is a specialized configuration of the Universal V Pro level transmitter designed for oil/water separation vessels using electrostatic grids. It provides accurate, stable measurements of the electrical interface within emulsions, even during process upsets. This allows operators to maintain the interface close to the grid for maximum separation efficiency. The transmitter is maintenance-free with no moving parts, and is unaffected by changes in density, temperature, or pressure.

Key Features

- Remote Configuration
- 0.84" Diameter Teflon Heat Bonded Sensing Element w/ Cooling Extension, Inactive, and Electrostatic Filter
- Stable measurement during upset conditions
- Independent of density, temperature, and pressure variations
- No moving parts = low maintenance
- Explosion-proof and intrinsically safe
- Output: 4–20 mA (current limit to 28 mA)
- Power supply: 24 VDC nominal (11.5–50 VDC range)

ThePoint w/ Retractable Sensors

ThePoint with heavy-duty retractable sensors is a reliable solution for detecting crude oil and water interface levels in oil production separators. Proven in applications like automatic well testers and electrostatic treaters, it enhances operational efficiency by improving water dump control and reducing oil loss. The retractable design allows for easy installation without emptying vessels and integrates directly into existing block valves.

Key Features

- Accurate oil/water interface detection in desalters & separators
- Enhances efficiency and reduces oil loss during water draw-off
- Cote-Shield circuitry ignores process coatings
- Easy installation—no need to empty vessels
- Integral electronics with retractable sensing element
- Temperature Range:
- Ambient: -40 to +140 °F (-40 to +60 C)
- Process: 0 to +300 °F (-18 to +149 C)
- Pressure Rating: Up to 150 psi (10 bar) at +300 °F (+149 °C)
- Sensitivity: 0.01 inch standard
- Time Delay: Adjustable from 0–90 seconds
- Minimal ambient temperature effect: <0.1 inch per 100 °F

SIL Intellipoint for Floating Roof Tanks

The SIL IntelliPoint level switch is specifically designed for spill prevention in floating roof tanks (internal and external). It uses a flexible, field-adjustable brass sensing probe (up to 15 ft (4.5 m)) and meets API 2350 and SIL 2 safety standards (IEC 61508). The system features AutoVerify and Manual Certify diagnostics to ensure continuous, reliable operation without false alarms. The SIL Intellipoint provides a non-invasive solution meant to alarm when in contact with the floating roof with no need for field calibration.

Key Features

- Designed for floating roof tanks (internal/external)
- SIL 2 certified, meets API 2350 and DOT 49 CFR Part 195
- Flexible, adjustable probe (1 to 15 ft (.3 to 4.5 m))
- AutoVerify and Manual Certify diagnostics
- No calibration or setpoint adjustment required
- Loop or line powered
- Wetted parts: 316SS mounting, FEP-insulated cable, non-sparking brass sensor
- Dual-compartment housing protects electronics from moisture
- High accuracy across various media and tank roof types

Plug Chute Sensor

The Drexelbrook Plugged Chute Detector is a rugged, flush-mounted point level switch designed to detect the presence or absence of bulk solids in chutes. It is ideal for materials like coal, wood chips, ores, and powders, and helps prevent spills and equipment damage by alerting operators or shutting down systems when a chute becomes blocked. The sensor is non-intrusive, low maintenance, and features coating immunity and remote electronics mounting for safety and convenience.

Key Features

- Flush-mounted design: No interference with material flow and can be installed in fill path
- Ideal for bulk solids (e.g., coal, wood chips, ores, powders, dry or wet)
- Cote-Shield circuitry ignores process coatings
- Remote mounting for safe, easy access
- Sensor options: Curved (consult factory) and flat plate styles
- No moving parts = low maintenance
- Compatible with ThePoint or Intellipoint Electronics

The Clearline

The Clearline is an in-line style switch designed for presence or absence of process media in vertical or downward oriented pipes. Ideal for pump protection, it mounts between two flat-faced flanges with no invasive elements allowing for unobstructed flow and eliminating the risk of any blockages caused by traditional systems.

Key Features

- Non-intrusive design: Mounts in-line without disrupting flow
- 2”, 3”, 4”. & 6” Pipe Sizes
- Ambient temperature: -40 to +140 °F (-40 to +60 °C)
- Process conditions: Up to +250 °F (+121 °C) and 100 psi (7 bar)
- Compatible with ThePoint or Intellipoint Electronics

3A Sanitary Perm-A-Seal Sensors

Drexelbrook 3A probes are hygienic level sensors designed for the food & beverage, and pharmaceutical industries, supporting CIP (Clean-in-Place) and SIP (Sterilize-in-Place) operations.

Key Features

- Gap-less design and FDA-certified materials for sanitary compliance and long-term reliability
- Suitable for liquids, slurries, grains, and powders
- Equipped with Cote-Shield technology to prevent false readings from coatings or buildup
- Compatible with multiple Drexelbrook systems: Z-Tron IV, Point Line Powered, Point Loop Powered, and IntelliPoint
- Available with 3A-approved Tri-Clamp fittings (1.5” to 4”)

Retrofit Solutions for Legacy RF Admittance Systems

Extend the life of your existing Drexelbrook RF Admittance systems with our cost-effective upgrade and retrofit kits. Designed to modernize legacy installations, our kits include new housings, advanced electronics, probe adapters, and cabling—tailored to your specific system. Best of all, if your existing probe is still in good condition, there’s no need to remove it from the process, saving you precious downtime, and cost.

INDUSTRIES SERVED

By focusing on solving customer problems we have been able to build a wealth of critical application knowledge across the largest and most demanding industries.

Asphalt and Shingle Manufacturing

Beverage Plants

Cement Manufacturing

Food Processing

Mining

Oil Production and Refining

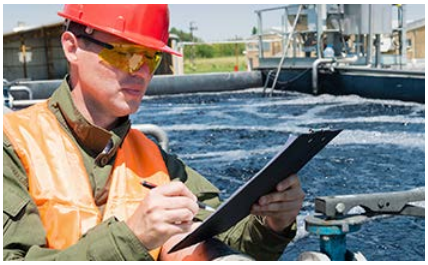
Organic Chemicals and Plastics

Pharmaceutical Plants

Power and Co Generation Plants

Pulp and Paper Plants

Steel Mills



Water and Wastewater Treatment

ABOUT AMETEK LEVEL MEASUREMENT SOLUTIONS.

AMETEK Level Measurement Solutions (LMS) is focused on delivering high value, differentiated level measurement technologies for challenging industrial applications.

With our unique offerings and capabilities in the level measurement industry, AMETEK LMS is committed to providing innovative solutions to meet the evolving needs of its customers.

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