



OIL & GAS

APG Product Catalog

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Our solution experts are ready to assist you.

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At APG, we're here to support you every step of the way.

AT APG, WE'RE DEDICATED TO YOUR SUCCESS

We design and manufacture innovative level and pressure sensors to solve real-world, niche problems across industries. At APG, we don't just offer products—we work closely with our customers to tailor solutions that meet their specific application needs.

APG's mission is to design, develop, and manufacture top quality and highly-valued industrial measurement equipment and data service.

APG sensors are trusted in applications across many industries, including:

- Water/Wastewater
- Food & Beverage
- Chemical & Petrochemical
- Mining & Minerals
- Medical & Pharmaceutical
- Aerospace
- Oil & Gas
- Car Wash
- Agriculture

As an **ISO 9001:2015-certified manufacturer**, quality is at the heart of everything we do. We believe our success is tied to yours—because when you thrive, we thrive.

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PRESSURE SENSORS

APG's pressure sensors leverage advanced piezoresistive technology to deliver precise pressure measurements for liquids. Widely trusted in the oil and gas industry, our pressure transducers excel in both process and storage applications. Our digital pressure gauges provide critical safety monitoring, ensuring accurate pressure control in any system using pressurized vessels or lines. With their user-friendly, highly accurate design, they are an indispensable tool for safety and efficiency. Globally, our Hammer Union pressure transducers monitor drilling mud pressure during drilling operations, alongside the reliable performance of our PT-400 and PT-405 models.

HAMMER UNION PRESSURE TRANSMITTERS

APG's Hammer Union Pressure Transmitters are built for extreme pressure, intense vibration, and rough handling. Designed with a wider top for easy connector access, these sensors also feature large drain holes to keep water from collecting around the connector.

HU1502I FIG. 1



Intrinsically Safe and Calibratable

Combining the toughness you need with a recalibration port, the HU-1502I is field-proven and features corrosion-resistant material alongside welded construction.

- **Range:** Up to 20,000 psi | **Output:** 4-20 mA; 0-5V
- Enclosure Protection:** IP67/IP65



FIG. 1

PRESSURE TRANSMITTERS

APG's Pressure Transmitters are engineered and manufactured to provide accurate and reliable pressure measurements everywhere you need them. From protected pump houses to exposed oil rigs, in commercial, industrial, or hazardous environments, you can depend on APG's high-precision pressure transducers.



PT-200

Compact General Purpose Sensor

Series PT-200 are rugged, general purpose sensors that offer reliable and accurate measurements in versatile conditions.

Range: Up to 10,000 psi | **Output:** 4-20 mA | **Enclosure Protection:** IP65



PT-300

Enhanced Output Pressure Transmitter

The small size, integrated electronics, wide operating temperature ranges, and durability make the PT-300 a great option for pressure measurements.

Range: Up to 7500 psi | **Output:** 4-20 mA



PT-400

For Harsh Conditions & Hazardous Locations

The PT-400 is built for harsh environments, high vibration, high-pressure spikes, and even extended temperature compensation.

Range: Up to 30,000 psi | **Output:** 4-20 mA; 0-5V, 0.5-4.5V, 1-5V, 0-10V; RS-485



PT-405

Explosion-Proof

The PT-405 pressure transducer offers high accuracy and reliability over a wide range of pressures with cCSAus approvals.

Range: Up to 30,000psi | **Output:** 4-20 mA; 0-5V, 0.5-4.5V, 1-5V, 0-10V; RS-485

● = Explosion Proof ● = Intrinsically Safe

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SUBMERSIBLE PRESSURE TRANSMITTERS

APG's submersible pressure transmitters are incredibly versatile, often used in waste liquids. Their low current draw makes them popular for battery-powered applications. With our pressure transmitters, you can get a pressure level reading inside a tank, well, containment vessel, or outside in areas prone to running or standing liquids.

APG's PT-500 Series Submersible Pressure Transmitters are the only transmitters on the market with built-in over-voltage protection, Class I Division 1 certification, and field-adjustable zero. The PT-500 Series is compatible with APG's Settler and Explorer for remote monitoring via the internet.



PT-500-P1

For Clean Liquids

The PT-500-P1 for clean liquids offers unparalleled reliability and accuracy in industrial applications. Features field-adjustable zero for flexible and easy installation.

Range: 250 psi | **Output:** 4-20 mA; 0-5, 1-5, 1-10 VDC; mV/V; Modbus RS-485



PT-500-P38/39

For Harsh, Dirty Liquids

The patented, welded cage on the PT-500-P38/39 is designed to protect the diaphragm in turbulent and dirty liquids. The cage is either removable and reusable, or permanently welded to the PT-500.

Range: Up to 250 psi | **Output:** 4-20 mA; 0-5, 1-5, 1-10 VDC; mV/V; Modbus RS-485



PT-503

For Chemical Applications

Made for durability, the PT-503 excels in harsh chemical environments with precise performance and unmatched reliability.

Range: 30 psig | **Output:** 4-20 mA; 0.5-4.5 VDC

● = Explosion Proof ● = Intrinsically Safe

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PT-L1/L3/L10

Amplified Output for General Use

These compact, inexpensive pressure transducers have an amplified output and are great for a wide variety of uses, including OEM applications.

Range: Up to 10,000 psi | **Output:** 4-20 mA; 0-5V; 1-5V; 1-6V; 0-10V



PT-L9/L13/L14

Millivolt Output for General Use

Our millivolt output transducers are the economical answer for all general purpose measurements where a cost-effective, high reliability unit is required.

Range: Up to 5,000 psi | **Output:** mV/V

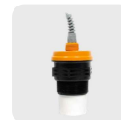
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LEVEL TRANSMITTERS

APG offers both contact and non-contact level transmitters that provide continuous level measurements. APG manufactures level transmitters that can be used to determine the level of liquids at any given time. Many of the level transmitters can additionally be used for point-level detection.

ULTRASONIC LEVEL SENSORS

Ultrasonic sensors are ideal for tank-level monitoring, sump control, and flow measurement in oil and gas operations. They offer reliable, non-contact measurement with programmable outputs for distance, level, or volume.

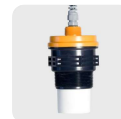


LPU-2428

Intrinsically Safe, Loop-Powered

Made for highly configurable measurement in linear and non-linear tanks and channels, the LPU-2428 can internally calculate distance, level, open-channel flow, or volume.

Range: 1-25 ft. | **Output:** 4-20 mA | **Enclosure Protection:** IP65

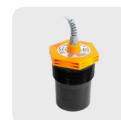


IRU-2420

Non-Incendive Mid-Range Sensor

The IRU-2420 series provides a non-contact method of detecting distance or proximity, with on-board level or volume calculations.

Range: 1-25 ft. | **Output:** 4-20 mA; 4-20 mA w/ 2 NPN trip points | **Enclosure Protection:** IP65



IRU-3430

Non-Incendive Long-Range Sensor

With built-in technology to compensate for unpredictable variables, the IRU-3430 is designed to excel in long-range applications, like crane collision-avoidance.

Range: 125-50 ft. | **Output:** 4-20 mA; 4-20 mA w/ 2 NPN trip points | **Enclosure Protection:** IP65

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**IRU-6429****Datalogger Compatible**

The IRU-6429 features auto-sense software for quick and easy programming, and an excitation input for datalogging.

Range: 1-30 ft. | **Output:** 0-2.5V, 0-5V, RS-232
Enclosure Protection: IP65

**DST****Mid-Range Pump Control**

DST ultrasonic sensors pair with APC's DCR controller for a simple, stand-alone system, delivering accurate distance data over 2000 feet with no signal loss.

Range: 1-50 ft. | **Output:** DCR Controller
Enclosure Protection: NEMA 6P, NEMA 12, IP65

**IRU-5000****Non-Incendive Short-Range Sensor**

IRU-5000s have the smallest blanking distance in APC's ultrasonic sensors at 4 in., making them perfect for precise use in tight quarters, such as small container level measurement.

Range: 4-79 in. | **Output:** 4-20 mA, 4-20 mA w/ 2 NPN trip points, 0-2.5V, 0-5V, RS-232 | **Enclosure Protection:** IP65

**IRU-2000****For Object Detection**

IRU-2000 Series ultrasonic sensors are ideal for presence/absence detection, proximity detection or measurement, object profiling, and more.

Range: 1-25 ft. | **Output:** 1 SSR, Isolated 4-20 mA, RS-485 w/ 1 NPN trip point, 4-20 mA w/ 2 NPN trip points | **Enclosure Protection:** NEMA 4X

● = Explosion Proof ● = Intrinsically Safe

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CONTINUOUS FLOAT LEVEL TRANSMITTERS

The MPXI-F series features Class I Zone 0/1 rating which allows for an Explosion Proof connection to a Zone I-installed housing on top of a Zone 0-installed probe stem.

MPXI-F (PVDF) FIG. 2**PVDF (Kynar) Flexible Stem**

The MPXI-F/K features a proprietary PVDF-blend flexible stem and optional high-level float switch for simple installation in the tallest of tall tanks.

● | **Length:** 10-50 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: NEMA 4X, IP66

MPXI-F (STAINLESS STEEL) FIG. 3**Stainless Steel Flexible Stem**

The MPXI-F/B features a 316L SS flexible tubing braided stem that uncoils easily for simple installation in tall tanks.

● | **Length:** 4-32 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: NEMA 4X, IP66

MPX-F FIG. 4**Stainless Steel Flexible Stem**

The MPX-F is designed for effortless installation in tall tanks, thanks to its corrosion resistant 316L SS flexible tubing with a braided stem.

● | **Length:** 10-32 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: IP65



FIG. 2

FIG. 3

FIG. 4

● = Explosion Proof ● = Intrinsically Safe

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**MNU-IS****Intrinsically Safe Modbus Sensor**

MNU-IS offers Intrinsically Safe, power-saving ultrasonic sensing with QuickMode, optional surge protection, and easy RS-485 Modbus integration.

● | **Range:** 5 in-25 ft. | **Output:** Modbus RS-485
Enclosure Protection: IP68 (M12 connector only rated IP67)

**MNU****Web-Enabled Modbus Sensor**

Built for any Modbus application, the MNU is compatible with any Modbus controller and can be monitored online when paired with APC's Settler and Explorer.

Range: 4 in-40 ft. | **Output:** Modbus RS-485
Enclosure Protection: NEMA 6P

**LOE****Web-Enabled Sensor & Controller**

Designed for remote measurement, the LOE series connects to the internet to provide online monitoring via APC's Explorer.

Range: 7 in-40 ft. | **Output:** TCP/IP; Up to 2 Isolated Solid State Relays (120V/120 mA max) | **Enclosure Protection:** IP65

**LPU-2127****Built-In Keypad & Display**

The LPU-2127 features an LCD display for easy programming performed entirely through the built-in keypad.

Range: 1-25 ft. | **Output:** 4-20mA; 600 ohms @ 24 VDC; 150 ohms @ 12 VDC | **Enclosure Protection:** IP65

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Our original magnetostrictive probes carry Class I Division 1/ Class I Zone 1 Flameproof (Explosion-Proof) certifications for installation in hazardous areas throughout North America.

**MPX-E****Float Transmitter—Low-Level Capable**

With a 0.5 in.-diameter 316L SS stem available in lengths up to 12.75', the MPX-E is built to handle tough environments—while offering low-level float measurement capabilities.

● | **Length:** 1-12.75 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: IP65

**MPX-E CHEMICAL****Float Level Transmitter for Harsh Environments**

An anti-corrosion stem sleeve, a chemically-resistant float, and Explosion-Proof ratings allow the MPX-E Chemical to handle chemicals in small-scale containers and transport settings.

● | **Length:** 1-12.75 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: IP65

**MPX-R****Explosion-Proof Float Level Transmitter**

The MPX-R's large, buoyant, and robust float allows it to be used in harsh applications where fouling or buildup might otherwise be of concern.

● | **Length:** 4-31.5 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: IP65

**MPX-T****Titanium Float Level Transmitter**

The MPX-T's 1 in. Ø titanium stem extends its chemical capabilities for use in rougher, tougher environments, including H₂S.

● | **Length:** 4-25 ft. | **Output:** RS-485 Modbus; 4-20 mA
Enclosure Protection: IP65

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**MPX-R API 18.2****API 18.2 Custody Transfer Level Probes**

The MPX-R API 18.2 offers a 1 in.-diameter, stainless steel stem. Comes with required digital temperature sensors and feature large, robust floats that resist fouling.

- **Length:** 10–31.5 ft. | **Output:** Modbus RS-485 | **Enclosure Protection:** IP65

**MPX-T API 18.2****API 18.2 Custody Transfer Level Probes**

The MPX-T API 18.2 features a 1 in. titanium stem for enhanced chemical compatibility, robust fouling-resistant floats, and built-in digital temperature sensors.

- **Length:** 10–25 ft. | **Output:** Modbus RS-485 | **Enclosure Protection:** IP65

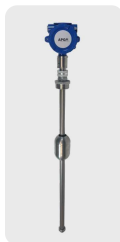
PAIR WITH A PERFECT FLOAT



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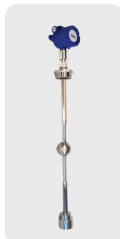
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**MPI-T****Titanium Float Level Transmitter**

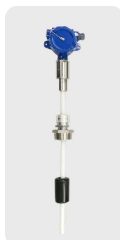
With a 1 in. diameter titanium stem, Class I Div 1 and Class I Zone 0 approvals, and floats that just don't get stuck, the MPI-T is built to conquer corrosive chemicals and hazardous locations.

- **Length:** 4–25 ft. | **Output:** RS-485 Modbus | **Enclosure Protection:** NEMA 4X, IP65

**MPI-F/B (STAINLESS STEEL)****Flexible Float Level Transmitter**

The MPI-F/B features a 316L SS flexible tubing braided stem that uncoils easily for simple installation in tall tanks.

- **Length:** 4–32 ft. | **Output:** RS-485 Modbus; 4–20 mA | **Enclosure Protection:** NEMA 4X, IP65

**MPI-F/K (PVDF)****Float Level Transmitter for Large Tanks**

The MPI-F/K features a proprietary PVDF-blend flexible stem for easy installation and wiring in the tallest of tanks.

- **Length:** 10–50 ft. | **Output:** RS-485 Modbus; 4–20 mA | **Enclosure Protection:** NEMA 4X, IP66

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**MPI-E****Float Level Transmitter for Small Tanks**

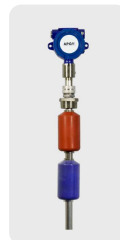
With a 0.5 in.-diameter 316L SS stem that comes in lengths up to 12.75', the MPI-E is built to handle tough environments in small spaces.

- **Length:** 1–12.75 ft. | **Output:** RS-485 Modbus | **Enclosure Protection:** NEMA 4X, IP65

**MPI-E CHEMICAL****Float Level Transmitter for Harsh Environments**

With a sleeve to keep the probe safe in corrosive liquids, and Intrinsic Safety ratings, the MPI-E Chemical is perfect for small-scale measurements in harsh environments.

- **Length:** 1–12.75 ft. | **Output:** RS-485 Modbus | **Enclosure Protection:** NEMA 4X, IP65

**MPI-R****Float Level Transmitter for Large Tanks**

The MPI-R's 1 in.-diameter 316L SS stem and 31.5" max length allow it to bring precision measurement to bigger tanks and thicker liquids.

- **Length:** 4–31.5 ft. | **Output:** RS-485 Modbus | **Enclosure Protection:** NEMA 4X, IP65

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RESISTIVE LEVEL TRANSMITTER

Our RP (Resistive Chain) Probes are designed around two technologies that excel in the ultra-tough environments of oil and gas exploration; resistive chain and large, buoyant floats. Inside each probe stem is a chain of resistors linked by reed switches, which are opened and closed by the magnet in the float traveling up and down the stem. No amount of physical shaking or bumping can change the state of a resistor, and the floats are designed to provide unimpeded movement in thick, viscous liquids.

RPE FIG. 5**1/2 in. Stem—Industrial Strength Level Probe**

Designed with small spaces in mind, the RPE combines a 1/2 in.-diameter stainless steel stem with unsinkable floats for long-lasting, dependable continuous level readings.

- **Length:** 11–153 in. | **Output:** Resistive; 4–20 mA | **Enclosure Protection:** NEMA 4X, 4, & 7, IP65, IP68

RPX FIG. 5**1/2 in. Stem—Hazardous Location Level Probe**

From mud tanks to meat-processing-plant waste sumps, and any hazardous location in between, the RPX doesn't flinch when called to action in challenging environments.

- **Length:** 11–96 in. | **Output:** Resistive; 4–20 mA | **Enclosure Protection:** NEMA 4 & 7, IP65

RPM FIG. 6**1.25 in. Stem—Explosion Proof Liquid Level Probe**

The RPM is made to work for you and is completely customizable for your needs including: probe length, float type, specific gravity and outputs.

- **Length:** 48–240 in. | **Output:** Resistive; 4–20 mA | **Enclosure Protection:** NEMA 4 & 7, IP65



FIG. 5

FIG. 6

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RADAR LEVEL TRANSMITTERS

Radar sensors use electromagnetic waves, not physical sound waves like ultrasonics, to measure distances. This makes them ideal for challenging materials. TRUE ECHO® Radar Level Transmitters further enhance performance by ignoring echoes from physical interferences, delivering clearer readings with lower power.



CR-L



Liquid Radar Level Sensor

The TRUE ECHO® CR-L delivers precise radar-level readings for industrial liquids, even in tough environments, with a narrow beam for accurate readings.

Range: 7.87 in–49.21 ft | **Output:** 4–20 mA, RS-485
Enclosure Protection: IP67



PRS



Dual-Frequency Radar for Solids

The TRUE ECHO® PRS provides accurate level readings of difficult to measure solids: powders, pellets, grains, and granules.

Range: 1–100 ft | **Output:** 4–20 mA (shared common or isolated); HART; RS-485, RS-232 | **Enclosure Protection:** NEMA 6



PRL



Pulse Radar for Liquids

The PRL provides accurate level readings from all types of liquid level measurement, including oil-water interface measurement via additional firmware.

Range: 1–100 ft | **Output:** 4–20 mA (shared common or isolated); HART 7; RS-485, RS-232 | **Enclosure Protection:** NEMA 6



PRX



Explosion-Proof Radar

TRUE ECHO® PRX makes getting dependable level readings in Class I, Division 1, and Class II/III, Division 1 hazardous locations simple.

● | **Range:** 1–100 ft | **Output:** 4–20 mA (shared common); HART 7; RS-485, RS-232 | **Enclosure Protection:** NEMA 6

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DDD/DBD

Din Mounted Digital Display

Din Mounted Digital/Bright Displays provide highly configurable, 2-line displays with NEMA 4X / IP65 front facing ratings.

Input: 0–20 mA, 4–20 mA, 0–5 VDC, 1–5 VDC, 0–10 VDC | **Output:** 0, 2, or 4 SPDT Relays; Isolated 4–20 mA | **Enclosure Protection:** NEMA 4X, IP65



DDL

Large Digital Display

The DDL features 2.8 in. digits readable from 100 ft. with high intensity LEDs for direct sun visibility, and a NEMA 4X/IP65 rated enclosure.

Input: 0–20 mA, 4–20 mA, 0–5 VDC, 1–5 VDC, 0–10 VDC
Output: 0, 2, or 4 SPDT Relays; Isolated 4–20 mA points
Enclosure Protection: NEMA 4X, IP65



LPD

Loop-Powered Display

The LPD features a simple three-button interface with a large LCD and supports optional Modbus RTU programming for easy setup.

Input: 4–20 mA | **Output:** 4–20 mA, RS-485
Enclosure Protection: IP67, IP68



DCR-1006A

Full Controller with 4 Relays & Signal Outputs

The DCR-1006A is a capable stand alone controller for select APG Modbus level sensors.

Input: MNU/MPX Sensor (RS-485), DST Sensor, 1 Dry Contact
Output: 4 Relays, 4–20 mA, RS-485 (Modbus RTU) interface
Enclosure Protection: NEMA 4X, IP66

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CONTROLLERS & DISPLAYS

APG's controllers and displays simplify remote applications by supporting up to 10 Modbus sensors with centralized monitoring. With features like sensor power supply, easy programming, and tank level management, they're ideal for standalone and compact setups.



MND

Modbus Digital Display

Local display that works with up to 10 sensors as a server, client, or power source on any Modbus network.

Input: Modbus RTU | **Output:** 4–20 mA, 0–3V, 1 SPDT Relay, 2 NO or NC Relays | **Enclosure Protection:** IP67/IP68



MDI



Intrinsically Safe Modbus Display

CI, ZI display that can power and control a CI, ZI or CI, ZI sensor, with optional passive connection to external monitoring network.

● | **Range:** Up to 5,000 psi | **Output:** mV/V

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SETTLER & EXPLORER



REMOTE MONITORING GATEWAY & SOFTWARE

Settler is a powerful remote monitoring gateway that works worldwide, effortlessly collecting and transmitting data from any Modbus and 4–20 mA sensor to APG's Explorer platform via MQTT with AES (Advanced Encryption Standard). With reliable Ethernet connectivity, and easy setup, and the ability to monitor anything, it ensures real-time insights, robust data security, and seamless industrial monitoring.

Temp. Range: -20° to 85°C (-4° to 185°F) | **Input/Output:** Modbus RS485 input, 4x 4–20 mA analog inputs (active loop power provided)
Enclosure Protection: IP40

*Settler is not intended for use in hazardous environments.

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MODBUS SCOUT (SCT-1)



PORTABLE RS485 MODBUS COMMUNICATOR

Modbus Scout is a compact RS485 Modbus communication device. The simple design allows users to connect to their Modbus sensor in the field via an easy-to-use app or a convenient USB port. Additionally, Modbus Scout can broadcast simple readings to the app, so users can quickly check the status of several devices within range at once.

Operating Temp: -18° to 60°C (0° to 140°F) | **Broadcast Range:** Approximately 33 ft. (10 m) | **Interfaces:** Short-range wireless connectivity via APG Scout Communicator app; USB connectivity via APG Scout Communicator app; USB connectivity via virtual COM port