Dear Friends,

Thanks for picking up our Spring 2018 Product Catalog. 2018 is shaping up to be a great year for APG, and you are a big part of that. So, we want to share our excitement with you.

First, we are pleased to introduce to you two new product lines and two new additions to familiar product families. APG now has a new line of True Echo™ Pulse Radar Level Transmitters. These radar sensors bring the accuracy and dependability you rely on APG for, to new situations including: solids, foamy or vaporous liquids, rising flood waters, and oil water interface level detection.

Additionally, we are expanding our Displays and Controllers lineup to include new Digital Displays, available in three specific styles—the Din Mounted Digital Display, the Large Digital Display, and the Explosion Proof Digital Display—with input and output options across all three series. We have also expanded our Modbus-capable, hazardous location-rated sensors with two new products: The Explosion Proof, Heavy Duty Pressure Transducer, PT-405 and the Intrinsically Safe, Modbus Network Ultrasonic Level Sensor, MNU-IS.

Second, many of you are already familiar with our Tank Cloud services. APG is now offering Tank Minder, a Remote Vendor Managed Inventory System (VIMS) for just-in-time delivery or pickup of bulk materials. Rather than guess at usage schedules, or try to anticipate future needs, you can set alert levels based on up to the minute level measurements to automatically trigger deliveries or pickups, taking the guesswork out of bulk inventory management.

At APG, we know that we won’t be successful if you aren’t successful. Our Measurement Experts are always ready to help you find the right measurement technology solution. We continue to look for new ways to help you get your job done more reliably.

Here’s to on-going, mutual success. And thank you for doing business with APG!

Sincerely,

Stan Ronna
President
About APG

Automation Products Group, Inc. (APG) is a supplier of innovative and differentiated products, solutions, and services for industrial process measurement and control. Technologies include pressure, flow, level control, analytics, and dedicated flexible control, using state of the art methodologies. Our customers include OEM’s, integrators, distributors, and end users. APG’s goal is to provide reliable products and solutions supported with exceptional customer service.

We specialize in matching application needs with the right sensing technologies for end-users and OEMs. We provide a wide range of technologies, field-configurable sensors, exceptional customer service, and custom product modifications.

Our sensors have been used in many industries, and in many applications. Most notably, our liquid level and pressure sensors have had huge success for OEM market leaders in Oil and Gas, Automatic Car Wash, Water and Wastewater, and medical industries, and have been staples for end-user manufacturers everywhere.

Today, Automation Products Group, Inc. is privately held. We are a growing company dedicated to providing high quality, highly functional sensors to our customers with exceptional service and knowledgeable engineering.

You can reach us by calling 435-753-7300, starting a live chat on our website, or by emailing us at sales@apgsensors.com.

Visit us online at www.apgsensors.com.
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The True Echo™ Pulse Radar Level Transmitters automatically adjust signal power for optimal accuracy and clarity. With echo masking and damping factors programmable via software, getting dependable level readings from difficult materials is simple.

**PRS**
For Solids
The True Echo™ PRS Dual Frequency Pulse Radar Level Transmitter provides accurate level readings of difficult to measure solids - powders, pellets, grains, and granules.

**PRL**
For Liquids
The True Echo™ PRL provides accurate level readings from all types of liquid level measurement, including oil-water interface measurement via additional firmware.

**PRSW**
For Standing Water
The True Echo™ PRSW has dual frequencies to allow quick and accurate readings of the complex reflection off uncontrolled standing and rising water surfaces.

**PRX**
Explosion Proof
True Echo™ PRX makes getting dependable level readings in Class I, Division 1, and Class II/III, Division 1 hazardous locations simple.

<table>
<thead>
<tr>
<th></th>
<th>PRS</th>
<th>PRL</th>
<th>PRSW</th>
<th>PRX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>1'-50' or 1'-100'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>Isolated 4-20 mA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure Protection</td>
<td>IP68, NEMA 6</td>
<td>IP65, NEMA 4x</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Radar sensors calculate level based on the time difference between low-energy, high-frequency impulses sent by the sensor and returned to the sensor after reflecting off of the measured surface. They are ideal for measuring difficult materials where there is foam, vapor, or dust that interferes with other non-contact sensors.
Ultrasonic Level Sensors

How They Work
Ultrasonic sensors measure distance by sending sound waves above 20 Hz that echo off of a target and return to the transmitter. The time it takes the sound burst to return to the sensor is measured and translated into a distance measurement that can be converted into a level indication, volume measurement, or rate of flow by the sensor’s microprocessor.

LOE
Web Enabled Sensor & Controller
Designed for remote measurement, the LOE series connects to the internet to provide online monitoring via Tank Cloud for up to 10 APG’s Modbus sensors.

MNU-IS Series
Intrinsically Safe Modbus Sensor
With all of the mounting and range flexibility of the MNU, the MNU-IS brings worry-free level monitoring and remote Modbus controls to hazardous locations.

MNU Series
Web Enabled Modbus Sensor
Built for any situation that requires Modbus, the MNU is compatible with any Modbus controller, and can be monitored online via Tank Cloud.

LPU-2127
Built-in Keypad & Display
The LPU-2127 features a built in keypad and LCD display for easy programming that can be done entirely through the keypad.

IRU-2000 Series
For Object Detection
The IRU-2000 mounts to a flat surface and is ideal for presence/absence detection, object profiling and a variety of other applications.

<table>
<thead>
<tr>
<th></th>
<th>LPU-2127</th>
<th>LPU-2428</th>
<th>LOE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>1 to 25 ft.</td>
<td>4 in to 40 ft</td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>4-20 mA</td>
<td>Modbus TCP/IP</td>
<td></td>
</tr>
<tr>
<td>Mount</td>
<td>2 in NPT</td>
<td>1, 2 or 3 in NPT</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>CSA C1D2</td>
<td>Intrinsically Safe CSA C1D1</td>
<td>CSA C1D2</td>
</tr>
</tbody>
</table>
**IRU-9400 Series**
For Soft or Reflective Target Surfaces
The IRU-9400 is an indoor sensor with a more sensitive transducer to detect difficult targets such as reflective and soft surfaces.

**IRU-6420**
Datalogger Compatible
The IRU-6429 features autosense software for quick and easy programming, and an excitation for datalogging.

**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, flow, and volume.

**IRU-2420, -3400, -5000 Series**
Short, Mid, and Long Range Sensors
Designed with flexibility in mind, this series features autosense software for quick, easy programming in a variety of applications.

---

<table>
<thead>
<tr>
<th>MNU</th>
<th>MNU-IS</th>
<th>IRU-6429</th>
<th>IRU-2000</th>
<th>IRU-9400</th>
<th>IRU-2420</th>
<th>IRU-3400</th>
<th>IRU-5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in to 40 ft</td>
<td>1 to 30 ft</td>
<td>1 to 25 ft</td>
<td>1 to 25 ft</td>
<td>1 to 25 ft</td>
<td>1.5 to 50 ft</td>
<td>4 to 79 in</td>
<td></td>
</tr>
<tr>
<td>Modbus RS-485</td>
<td>0-2.5 V, 0-5V</td>
<td>4-20 mA, RS-485, 2 Trip Points, Solid State Relays</td>
<td>4-20 mA, 2 Trip Points</td>
<td>4-20 mA</td>
<td>0-2.5 V, 0-5 V, 4-20 mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 2 or 3 in NPT</td>
<td>2 in NPT</td>
<td>Surface (4 screws)</td>
<td>2 in NPT</td>
<td>2 in NPT</td>
<td>3 in NPT</td>
<td>1 or 2 in NPT</td>
<td></td>
</tr>
<tr>
<td>C1D2 Pending</td>
<td>Intrinsically Safe CSA C1D1, IECEx ATEX</td>
<td>—</td>
<td>CSA General Purpose</td>
<td>CE; CSA C1D2</td>
<td>CE; CSA C1D2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

apgsensors.com
Continuous Float Level Probes

How The RPM Series Works

The RPM Resistive Liquid Level Sensors have a magnetic float that travels up and down the sensor stem to close contained reed switches that change the resistance of the sensor. The change in resistance causes a voltage fluctuation that is directly proportional to the float position, providing a level reading.

There is little that can disrupt the operation or accuracy of the RPM liquid level probe. It is built for heavy-duty applications that require ATEX/IECEEx, CSA intrinsic safety, or CSA explosion proof certifications. It’s commonly referred to in the field as a mud probe, one of the most demanding applications around.

RPM

Simple Liquid Level Probe for Hazardous Locations

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

<table>
<thead>
<tr>
<th></th>
<th>MPX-E/R</th>
<th>MPX-E Chemical</th>
<th>MPX-F</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max Length</strong></td>
<td>Custom</td>
<td>12.75 ft</td>
<td>32 ft</td>
<td>20 ft</td>
</tr>
<tr>
<td><strong>Stem</strong></td>
<td>304 SS or 316L SS</td>
<td>1/2&quot; 316L SS with coating</td>
<td>7/8&quot; Ø Flexible Tubing with Braid, 316L SS</td>
<td>316L SS</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>RS-485 Modbus, 4-20 mA Loop Powered</td>
<td></td>
<td>Resistive, 4-20 mA Loop-Powered</td>
<td></td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>NPT, Flange, No Mount</td>
<td>NPT</td>
<td>NPT, Flange, No Mount</td>
<td></td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>Explosion Proof CSA C1D1</td>
<td></td>
<td>Explosion Proof or Intrinsically Safe CSA C1D1, ATEX</td>
<td></td>
</tr>
</tbody>
</table>
How The MPX Series Works
The MPX Magnetostrictive Liquid Level Probes send electrical pulses that align the molecules to a magnetic field down a metal waveguide in the stem. The magnet in the floats create a competing magnetic field that sends a strain pulse back to the sensor when reached by the electrical pulse. The strain pulse is then used to determine the position of the floats to provide a level measurement.

MPX Magnetostrictive Liquid Level Probes provide highly accurate and repeatable liquid level readings - including dual level readings. They are ideal for both interface level measurement and total volume measurement, and are Tank Cloud compatible for remote measurement.

MPX-E/R
Explosion Proof
The MPX-E’s light weight design makes it ideal for applications where space is limited, while the MPX-R’s large, robust floats and stem make it ideal for harsh applications where fouling or build up might be a concern.

MPX-E Chemical
Chemical Resistant
With a chemical resistant coating and a Kynar® float, the MPX-E Chemical delivers precision measurements in corrosive, acidic and marine environments.

MPX-F
Flexible Stem
The MPX-F features a 316L SS flexible tubing braided stem that uncoils easily for simple installation in tall tanks.
Float Level Switches

**How They Work**
Float switches work much like a standard light switch, they open and close contacts to control whether or not signal current can pass through to tell level.

Cable Suspended Float Switches

**KA Series**
Single Float Switch with up to 4 Levels
A single Kari float allows up to four switch points in a single float, saving you money by replacing four single-level float switches. The sensors are durable, highly chemical compatible and come in 25 configurations, most with built-in hysteresis.

**FT-100/300**
Single Point Float Switch
This inexpensive, traditional single point switch is ideal for simple alarming applications. The sensors trigger immediately above or below horizontal, for a highly repeatable performance that you can count on.

**TLS**
Dual Point Float Switch with Hysteresis
The TLS series cable switches are dual point switches with built in hysteresis to provide high and low level control that won’t wear out your pumps with frequent on/off cycles.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>KA Series</th>
<th>FT-100</th>
<th>FT-300</th>
<th>TLS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable Length</strong></td>
<td>5 m, 15 m, custom</td>
<td>6 m, custom 5 ft increments</td>
<td>6 m, 12 m, 18 m</td>
<td></td>
</tr>
<tr>
<td><strong>Switch Point</strong></td>
<td>up to 4 NO/NC</td>
<td>1 NO/NC, 1 SPTD</td>
<td>1 NO/NC</td>
<td>1 NO/NC</td>
</tr>
<tr>
<td><strong>Control Range</strong></td>
<td>—</td>
<td>±1.5”</td>
<td>± 4”</td>
<td>6”-8”</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE; CSA General Purpose</td>
<td>General Purpose</td>
<td>General Purpose</td>
<td>—</td>
</tr>
</tbody>
</table>
Stem Mounted Float Switches

**FL Series**
Custom Point Level Control
The FL series multi-point level switch has up to seven switch points custom configured along a single mount for linear level measurement in tight spaces. Everything on this sensor is made-to-order from switch configurations to float types and materials.

**FLX Series**
Explosion Proof Point Level Control
Every bit as customizable as the FL series, the FLX is the float switch for use in hazardous locations considered Class 1 Division 1 or 2 areas by CSA for North America. Place up to seven NO/NC switch points wherever needed along the stem customized to your application.

<table>
<thead>
<tr>
<th></th>
<th>FLX Series</th>
<th>FL Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Stem Length</td>
<td>24” or 153”</td>
<td>153”</td>
</tr>
<tr>
<td>Switch Point</td>
<td>up to 7 NO/NC, custom configuration</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>316L SS, PVC, and more</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>General Purpose, Explosion Proof CSA C1D1</td>
<td></td>
</tr>
</tbody>
</table>
Pressure Transducers

How They Work
APG’s pressure transducers use piezoresistive principles to monitor pressure. The sensors contain a sensing element that is attached to a diaphragm. As the diaphragm flexes from pressure, the sensing element changes relative to pressure to provide a basis for measure.

HU-1502
Built Tough for Oil & Gas Applications
The HU-1502 has a 1502 fitting and is certified for global use in hazardous locations for pressures up to 15,000 psi.

HU-2202
Durability in a Smaller Package
The HU-2202 is available with a 2002 or 2202 fitting and is certified for global use in hazardous locations for pressures up to 20,000 psi.

<table>
<thead>
<tr>
<th></th>
<th>HU-1502</th>
<th>HU-2202</th>
<th>PT-400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>up to 15,000 psi</td>
<td>up to 20,000 psi</td>
<td>up to 30,000 psi</td>
</tr>
<tr>
<td>Output</td>
<td>4-20 mA, 0-5 V</td>
<td>4-20 mA, Voltage, Modbus</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.25 % of f.s.</td>
<td>0.1 % of f.s.</td>
<td></td>
</tr>
<tr>
<td>Enclosure Protection</td>
<td>IP68, NACE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40 to 185 F</td>
<td>-40 to 180 F</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>Intrinsically Safe CSA C1D1, ATEX, IECEx (4-20 mA only)</td>
<td>CSA C1D1</td>
<td></td>
</tr>
</tbody>
</table>
The PT-400 is built for harsh environments, high vibration, high-pressure spikes, and even extended temperature compensation.

**PT-400 Series**
For Harsh Conditions & Hazardous Locations
The PT-400 is built for harsh environments, high vibration, high-pressure spikes, and even extended temperature compensation.

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

**PT-L9/L13/L14 Series**
Millivolt Output for General Use
These inexpensive, super compact pressure transducers have a millivolt output and fit just about anywhere.

**PT-L1/L3/L10 Series**
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.

**PT-200 Series**
High Performance at Low Cost
The PT-200 series are rugged, general purpose sensors that offer reliable and accurate measurements under harsh conditions.

---

### Comparison Table

<table>
<thead>
<tr>
<th></th>
<th>PT-405</th>
<th>PT-L1/L3/L10</th>
<th>PT-L9/L13/L14</th>
<th>PT-200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure range</td>
<td>up to 30,000 psi</td>
<td>up to 10,000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outputs</td>
<td>4-20 mA, 0-5 V, 0-10 V, RS-485</td>
<td>4-20 mA, 0-5 V, 0-10 V</td>
<td>mV/V</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.25 % of f.s.</td>
<td>0.1 % of f.s.</td>
<td>0.5 % of f.s.</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>-40 to 180 °F</td>
<td></td>
<td></td>
<td>14 to 212 °F</td>
</tr>
<tr>
<td>Approvals</td>
<td>CSA C1D1</td>
<td></td>
<td></td>
<td>CE; CSA C1D2</td>
</tr>
</tbody>
</table>
Submersible Pressure Transducers

How They Work
APG’s submersible pressure transducers read in feet or inches of liquid that are converted to PSI. They use piezoresistive principles to monitor pressure, just like our other pressure transducers.

APG’s PT-510 Series Submersible Pressure Transducers offer reliability in harsh industrial conditions. The small size, and all welded, all stainless steel body make this durable instrument perfect for static and dynamic pressure measurement and OEM applications.

PT-510
For Clear Liquids
The PT-510 features a removable nose cone for measurement in clean liquids.

PT-510W
For Wastewater
The PT-510W features a welded steel cage that is suitable for wastewater measurements.

<table>
<thead>
<tr>
<th></th>
<th>PT-500-P1</th>
<th>PT-500-P30</th>
<th>PT-510</th>
<th>PT-510W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>4-20 mA, Modbus RS-485</td>
<td></td>
<td>4-20 mA</td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>up to 450 ft</td>
<td></td>
<td>up to 46 ft</td>
<td></td>
</tr>
<tr>
<td>Lightning Protection</td>
<td>Built-in, IEC 61000-4-5</td>
<td></td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Mount</td>
<td>NPT, Flange, No Mount</td>
<td>NPT</td>
<td>NPT, Flange, No Mount</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>316L SS</td>
<td></td>
<td>Welded 18-8 SS</td>
<td></td>
</tr>
<tr>
<td>Nose Cone</td>
<td>Delrin</td>
<td></td>
<td>Removable PVC</td>
<td></td>
</tr>
<tr>
<td>Cage</td>
<td>—</td>
<td>316L SS</td>
<td>—</td>
<td>Welded 18-8 SS</td>
</tr>
<tr>
<td>Certification</td>
<td>Intrinsically Safe CSA C1D1/C1D2 (4-20 mA only)</td>
<td></td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>
APG’s PT-500 Series Submersible Pressure Transducers are the only ones on the market with built-in lightning protection, Class 1, Division 1 certification, and field adjustable zero. The PT-500 Series is Tank Cloud compatible for remote monitoring via the internet.

**PT-500-P1**
For Clean Liquids
The PT-500-P1 has a nose cone fitting and is designed for use in clean liquids.

**PT-500-P30**
For Mixed Fluids
The PT-500-P30 has a choice of patented removable, reusable or fixed, welded cage, and is designed for use in caustic, turbulent, and dirty liquid.
Digital Pressure Gauges

How They Work
APG’s digital pressure gauges contain a pressure transducer that provides readings to the attached digital display in the unit of measure of your choosing (psi, kPa, mmHg, cmHg, mbar, bar, inH₂O, ftH₂O, kg/cm²), while adjusting for additional activated features. The full-feature PG gauge platform includes tare, peak hold, and max/min functions standard (PG2 not included).

PG5
Full-Feature Indoor Gauge
Serving as the foundation to our PG series of gauges, this general purpose, full-feature gauge is designed for accurate indoor pressure measurements.

PG7
Rugged Full-Feature Gauge
The PG7 is our most rugged full-feature gauge, with an IP67 rating it is perfect for indoor and outdoor use.

PG10
Large Display Gauge
The PG10 is our additional feature gauge with a large, 5-digit display, 270° radial bar, datalogging, and optional solid-state or SPDT mechanical relays.

PG2
Low-Cost, Indoor/Outdoor Gauge
The PG2 is our base-line digital gauge with auto-off and re-zeroing functions, user selectable units of measure and an easy-to-read display.

<table>
<thead>
<tr>
<th></th>
<th>PG2</th>
<th>PG5</th>
<th>PG7</th>
<th>PG10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>up to 5,000 psi</td>
<td>up to 10,000 psi</td>
<td>up to 30,000 psi</td>
<td>up to 10,000 psi</td>
</tr>
<tr>
<td>Output</td>
<td>—</td>
<td>—</td>
<td>4-20 mA, 0-2 V, 0-5 V</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>available 0.5 % of f.s.</td>
<td>available 0.1 % of f.s.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure Protection</td>
<td>IP65</td>
<td>—</td>
<td>IP67</td>
<td>IP65</td>
</tr>
<tr>
<td>Certification</td>
<td>—</td>
<td>CE</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
**RST-5003**  
Web Enabled Controller  
Connects up to 10 Modbus sensors in a daisy-chain network or a single 4-20 mA sensor to Tank Cloud.

**MND**  
Modbus Digital Display  
Local display that works with up to 10 sensors as a master, slave, or power source on any Modbus network.

**LPD**  
Loop-Powered Display  
Local display designed to be inserted into a 4-20 mA sensor current loop.

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

**DDL**  
Large Digital Display  
The DDL features 1.8” digits readable from 100 ft with standard high intensity LED’s for direct sun visibility, and a NEMA 4X / IP65 rated enclosure.

**DDX**  
Explosion Proof Digital Display  
Loop- and line-powered explosion-proof display encased in a cast aluminum FM rated housing.

<table>
<thead>
<tr>
<th></th>
<th>MND</th>
<th>LPD</th>
<th>RST-5003</th>
<th>DDD/DBD</th>
<th>DDL</th>
<th>DDX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td>RS-485 Modbus</td>
<td>4-20 mA</td>
<td>Modbus, 4-20 mA, 0-2 Switches</td>
<td>4-20 mA, 0-10 V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>4-20 mA, 0-5 V, Trip Points</td>
<td>4-20 mA</td>
<td>Modbus, TCP/IP, 2 Relays, 0-2 Isolated SSR</td>
<td>up to 4 relays, 4-20 mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>Handheld, Panel, Wall</td>
<td>Din Rail</td>
<td>Din Rail</td>
<td>Din Rail</td>
<td>Panel, Wall</td>
<td></td>
</tr>
<tr>
<td><strong>Enclosure Protection</strong></td>
<td>IP67</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>IP67</td>
</tr>
</tbody>
</table>

apgsensors.com  16
Remote Tank Monitoring

Connect any 4-20 mA signal sensor or up to 10 daisy-chained APG’s Modbus sensors to a Tank Cloud master.

Connect a Remote Sensor

Use the Internet Backbone
Connect the Tank Cloud master to a pre-existing Internet connection via an Ethernet cable - landline, satellite, radio, or cellular.

View Measurements 24/7
Access sensor data online anytime through our secure Tank Cloud portal at levelandflow.com. Here you can see everything you need to know about your measurements and can even program your sensors.

Get Alerts and Long-Term Data
Become further connected to your measurements by programming custom alarms that can be received via email and text, and add data-logging for long-term decisions.

Tank Cloud
View measurements from your sensors anywhere you have an internet connection with Tank Cloud.

How it works:

1. Connect a Remote Sensor
   Connect any 4-20 mA signal sensor or up to 10 daisy-chained APG’s Modbus sensors to a Tank Cloud master.

2. Use the Internet Backbone
   Connect the Tank Cloud master to a pre-existing Internet connection via an Ethernet cable - landline, satellite, radio, or cellular.

3. View Measurements 24/7
   Access sensor data online anytime through our secure Tank Cloud portal at levelandflow.com. Here you can see everything you need to know about your measurements and can even program your sensors.

4. Get Alerts and Long-Term Data
   Become further connected to your measurements by programming custom alarms that can be received via email and text, and add data-logging for long-term decisions.
**Tank Minder**
Remote Vendor Managed Inventory System (VMIS)

Tank Minder remote tank vendor management system monitors tank levels in real-time so you can get inventory deliveries based on actual need. Tank Minder measures and transmits tank levels to a secure website, where you can view current and past level measurements, and set level-based delivery alerts. The system consists of MNU ultrasonic level sensors that take individual tank measurements, MND digital displays that show local readings, and a control box that contains everything needed to receive the sensor measurements and display them at levelandflow.com.

**Define Delivery Alerts**
With level-based alerts you are guaranteed to receive inventory deliveries when you need them without having excess or running out. Simply log on to the secure website and set an alert at the levels you need.

**View Remote Inventory**
High performance ultrasonic level sensors installed on each tank to measure inventory level and transmit them to an RST-5003 controller level measurements can be viewed online.

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**Tank Mesh Wireless**
Scalable and Customizable Telemetry Solutions

Built on 900 MHz radios, Tank Mesh sentinels and stick transceivers can transmit signals from analog or digital sensors up to .05 and 3-4 miles, respectively. Additionally, Tank Mesh networks can be connected to the online Tank Cloud data portal by integrating a Tank Cloud master into the network.