



PRODUCT BRIEF

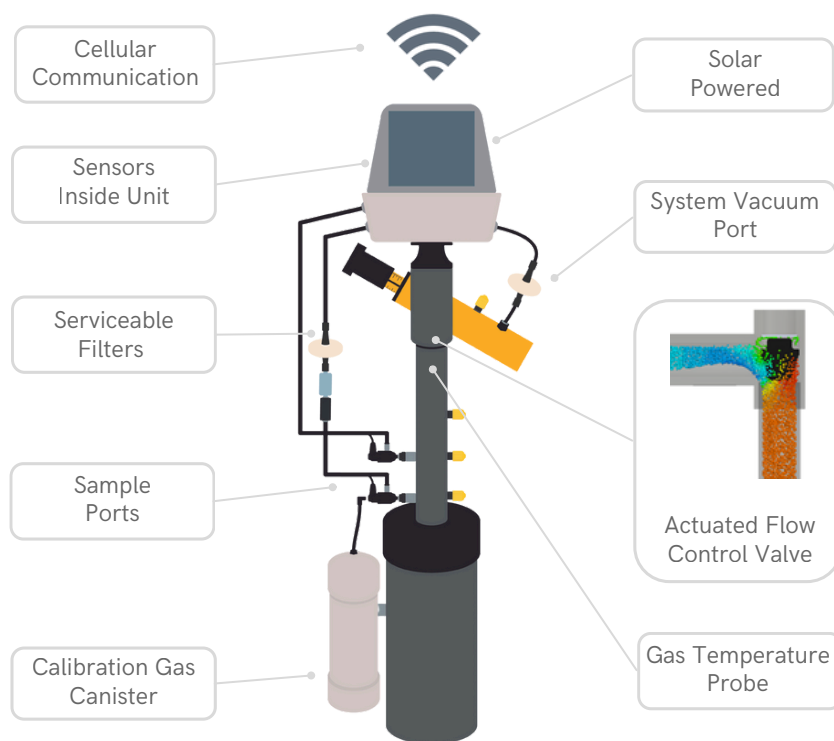
smartWell



APIS
INNOVATION

The smartWell is an advanced system that automates gas flow control and provides real-time gas quality monitoring, optimizing landfill gas recovery.

Highly customizable and adaptable, it can be set up in various climates, landfill conditions, and well types, including horizontal or vertical wells, side slopes, and leachate risers, ensuring flexible and tailored solutions for every environment.



Main Benefits



Automation

Enable Apis to adjust valves automatically.



Auto-Calibration

Ensure accuracy with adjustable calibration frequencies



Remote Access

Remote valve adjustments for faster issue resolution.



Schedule Samples

Automate sampling from hourly to daily intervals.

Sites choose Apis for smarter wellfield optimization and measurable results—typically seeing a **10–30% increase in flow**. With automated control, real-time alerts, and a performance dashboard built for operators, we deliver actionable data that helps teams respond faster, tune more precisely, and maintain compliance. The Apis Cloud platform offers full visibility through map and chart based views, downloadable reports, and customizable valve controls—backed by a dedicated engineering team that evolves tools based on real field needs.

For More Information:

610-229-9069

apisinnovation.com

sales@apisinnovation.com

Sample Sequence

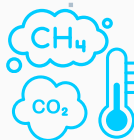


1/ Device Calibrates

Solenoid valves reset all pressure transducers to ambient air pressure. Our device calibrates to standard LFG concentrations 50/35/0.

2/ Readings are Taken

System vacuum, static, and differential pressure are recorded to calculate flow, along with gas composition and temperature.



3/ Auto-tuning Occurs

Our algorithm adjusts the valve based on the recorded readings, optimizing well conditions for maximum efficiency and performance.

4/ Real-time Data Access

Stable readings are transmitted to the Apis Cloud dashboard for easy viewing and analysis.



Parameters Measured

Our system ensures reliable connectivity with robust power, seamless communication, and real-time cloud data transmission. It supports U.S. and Canadian cell providers for flexible connectivity and security is prioritized with encryption and ongoing updates. Our devices come in 2-inch and 3-inch options, including Venturi and orifice plate configurations for high and regular flow applications.

Sensor Parameter	Range	Accuracy
CH4 <i>infrared</i>	0 to 100%	± 0.5%
CO2 <i>infrared</i>	0 to 100%	± 0.5%
O2 <i>optical</i>	0 to 25%	± 0.1%
Bal <i>calculated</i>	0 - 100 %	± 1.15 %
Well and Wellfield System Pressure	-5 to 5 <i>in w.c.</i> -135 to 135 <i>in w.c.</i>	± 0.15 <i>in w.c.</i> ± 0.25% of reading
Differential Pressure	-2 to 2 <i>in w.c.</i> -27 to 27 <i>in w.c.</i>	± 0.01 <i>in w.c.</i> ± 0.25% of reading
Flow Measurement	Orifice, Venturi, or Pitot options	Varies per meter
Gas Temperature	-40 to 257 <i>degrees F</i>	± 1 <i>degrees F</i>
Barometric Pressure	8.9 - 32.5 <i>in. Hg</i>	± 0.03 <i>in. Hg</i>
Optional H2S <i>Electro-Chemical</i>	0 - 5,000 <i>ppm</i>	Estimated ± 50 <i>ppm</i>