

subSurface Sensors



Apis subSurface sensors deliver critical insight into well conditions—supporting proactive maintenance, maximizing gas collection, and safeguarding infrastructure.

liquidLevel Sensor: Ensures optimal dewatering pump performance by detecting leachate buildup, blockages, and pump inefficiencies, preventing obstructions to gas collection and maintaining maximum well efficiency.

temperatureProbe: Monitors temperature variations deep within the well, providing early warnings of risks like exothermic reactions, air intrusion, or high moisture content, which could compromise gas quality and equipment integrity.



Main Benefits



Efficient Gas Extraction

Prevents blockages and ensures smooth pump operation, maximizing well performance and gas recovery.



Proactive Risk Management

Early detection of temperature anomalies helps prevent risks such as moisture buildup or equipment failure.



Real-time Monitoring

Data is logged in the Apis Cloud, enabling operators to track and manage well conditions remotely.



Flexible Installation

Sensors can operate individually or as part of the smartWell system for customized gas well management.

Parameter	liquidLevel	temperatureProbe
Measurement Range	0 - 164 ft	0 - 164 ft
Accuracy	± 0.5% full scale	± 2
Temperature Rating	-4°F to 185°F	-40°F to 221°F
Long-Term Stability	± 0.1% full scale/year	-
Materials	• Sensing Diaphragm: 316L Stainless Steel • Housing: 304 Stainless Steel • Seals: Viton • Cable: Polyethylene	• Temp probe: 300 Series Stainless • Cable: Polyethylene