



SmartCover[®] Detects H₂S Levels



Overview:

Bioreactions within a collection system generate Hydrogen Sulfide (H₂S) causing odors that can be strong, persistent, and a nuisance to employees, residents, community leaders, and businesses located near manholes and water treatment facilities. Complaints from wastewater customers increase when H₂S is present.

Over time, exposure to H₂S damages sewer system infrastructure leading to shorter asset life and increased replacement cost. When a collection system operator lacks visibility into the type of bioreactions occurring and/or ambient H₂S levels:

- Pipelines succumb to corrosion leading to reduced durability and strength
- Water treatment dosing costs escalate

Identifying and controlling H₂S levels leads to greater efficiency -- operators can be more accurate with water treatment dosing, minimizing chemical use. The decreased exposure of infrastructure assets to H₂S also leads to longer asset life.

Although the scent of H₂S is a characteristic rotten egg smell, the odor isn't a dependable indicator of H₂S presence or for indicating increasing concentrations of the gas.

H₂Scents[®] is an H₂S detection application designed to seamlessly operate with the SmartCover IoT system to enable reliable, remote real-time indications of H₂S levels in manhole locations over extended periods of time.

- Measures 0-1000 ppm
- Automatic data capture every 15 minutes
- Adjustable timing options
- Reliable satellite transmissions from anywhere on Earth
- Seamlessly incorporated into SmartCover software
- Delivers 90 days continuous service per sensor unit
- Two-year battery life under standard conditions
- Low maintenance installation and service without confined space entry

REPRESENTED BY:

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Features & Benefits:

- Electrochemical sensor
- Low maintenance
- After initial install, replacement sensors provided every 90 days
- Minimum 90-day service intervals
- Warranty coverage
- Professional services & field support
- World class customer service -- live people when you need it
- Common interface -- integration with existing SmartCover dashboard
- Ability to overlay H₂S, level, flow, rain, tide and river data



Technical Specifications:

- Range 0-1000 ppm
- Resolution 1 ppm
- Accuracy 1% FS
- Sensor temperature range -10°C to +40°C
- Ingress Protection IP68
- External Dimensions (excluding connectors): 1.750 in x 3.25 in [19.05 mm x 82.55 mm]
- Sensor Weight: 7.8 oz [221 grams]
- Variables affecting lifespan efficacy: humidity, H₂S levels, other contaminants present
- Not intended to substitute safety precautionary measures during confined space entry
- Patent pending



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