



SMART VAULT

SmartVault™

Water Intrusion Detection

HOW IT WORKS

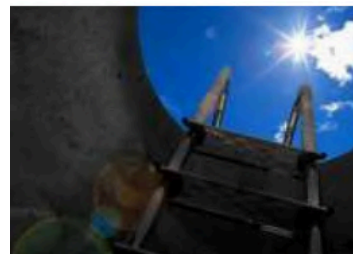
With the placement of a sensor inside the vault, the system measures & monitors internal water levels & if rising level is detected, notifications are issued.

Accessibility to vaults may be complicated by excessive lid weight & structural requirements to withstand tornados. This impedes easy, quick and frequent visual inspection of the vaults. SmartVault™ is an efficient, powerful monitoring system that relieves the necessity for visual vault inspection.

It provides users with ongoing, desktop access to the conditions inside the vault with graphical information through a secure web browser where vault conditions are observed from a dedicated website.

CONSISTENT VISIBILITY

SmartVault™ is the application of SmartCover to detect water intrusion in utility vaults. Utility vaults can become flooded from ground water intrusion, rainwater, or leaking conduits. Access to enable inspection of vaults can be difficult & expensive, but without consistent visibility to manage conditions, water exposure can lead to infrastructure degradation, failures, reliability issues & regulatory action. Excessive lid weight & structural requirements to withstand tornadoes & other environmental extremes requires planning & coordination. A SmartCover system eliminates the necessity for time consuming visual vault inspection.



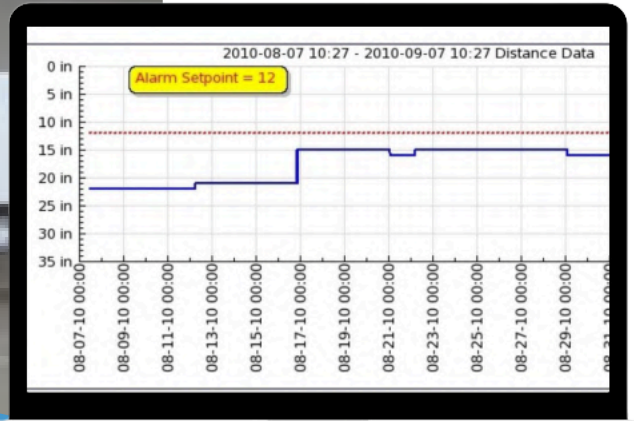
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📍 [LI: SmartCover Systems](#)

🌐 www.smartcoversystems.com

 **SMARTCOVER**[®]
A Badger Meter[®] Brand



Configurable graph depicts water intrusion from a heavy rain event

SmartVault™

Water Intrusion Detection

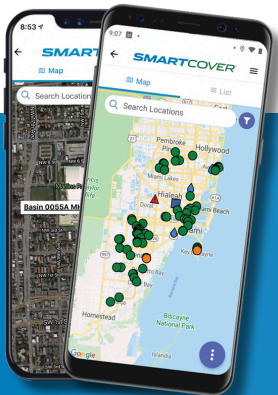
WHERE IT WORKS

SmartVault can be used with:

- Air release valve (ARV) vault
- Pressure relief valve (PRV) vault
- Cable vaults

There are two standard approaches for installation:

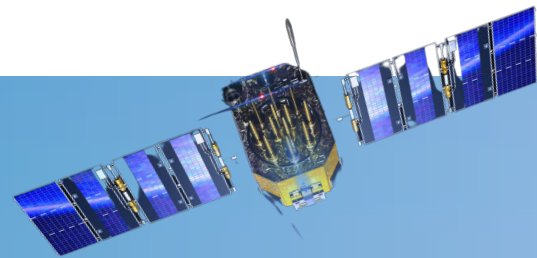
- 1 The lid mounting method installs to the underside using a bracket securing the remote filed unit components with the sensor positioned above the vault bottom. An antenna is attached to the top of the lid for data transmission.
- 2 The second method houses hardware in a NEMA enclosure box with the antenna mounted on top. The sensor is connected within the enclosure & installed at the desired monitoring location.



With the SmartCover mobile app, get the insights you want, when & where you need them. Available for both iOS & Android devices.

SMARTCOVER FEATURES

- Hardware components engineered to function in wet, humid, corrosive conditions
- Flexible patented sensor designs & deployment
- NO CONFINED SPACE ENTRY* installation or service
- Reduces traffic management resources
- Secure, online dashboard with easy-to-read, visual reports
- Compact, long lasting battery
- Two-way communications permits remote settings management
- Fusion with rain, river & tide data
- Variable timing options for data scan & notifications
- Done-for-you analytics
- Works when there is no power
- Satellite coverage works with sites difficult to access & withstands cellular outages
- Built in tilt switch for real time entry detection
- Encrypted secure servers with redundancy
- Mobile app for iOS & Android
- API available
- Configurations for open channels, canals, holding tanks, lift stations, outfalls, wet wells, reservoirs & utility vaults



With satellite based data transmission, your sewer status connection is maintained even during cell outages & the most severe weather.