



# SmartCover® Dual Sensor for Wastewater and Stormwater Monitoring

The SmartCover® SubSonic™ Dual Sensor extends visibility throughout the manhole from the bottom of the invert channel to the top of the manhole cover. By combining the accuracy of ultrasonic with the wide range of a pressure sensor, the dual sensor provides customers with full dynamic range of manholes.

“The release of SmartCover featuring a SubSonic Dual Sensor reflects our dedication to helping wastewater operators prevent sewer spills. Our customers wanted full dynamic visibility of their manholes and we listened. In the past, when ultrasonic sensors submerged during heavy rainfall, operators were in the blind. SmartCover’s product engineers redesigned our solution to address the deadband during a surcharge,” said Greg Quist, CEO of SmartCover.

Not only does the dual sensor provide visibility from the bottom of the invert to the manhole cover, the powerful combination of ultrasonic and pressure monitoring gives you steady visibility during water surges when you’re monitoring stormwater, wastewater, a combined system weir, and/or outfall locations.

This is helping to better understand rapidly changing water levels and, in turn, allows operators quicker response times and more accurate resource allocation when facing costly inflow and infiltration (I&I).

SmartCover technology allows you to know what’s happening in your sewer **before** an event occurs.

Continual monitoring of water level and flow gains visibility to predict and prevent Storm and Sanitary Sewer Overflows and Combined Sewer Overflows (CSO). When water level rises above a predetermined threshold due to a constriction downstream or capacity issues, a notification is sent directly to

utility staff. This enables wastewater operators to receive advance notice of an issue arising in the collection system so that corrective action can be taken before an overflow occurs. Three levels of notifications keep the operator informed:

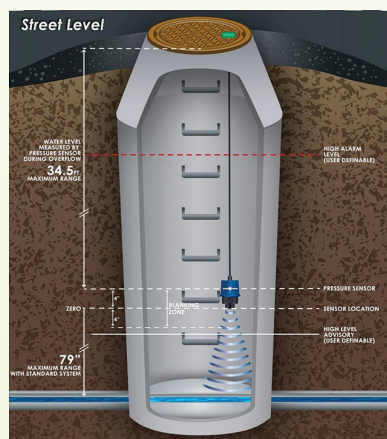
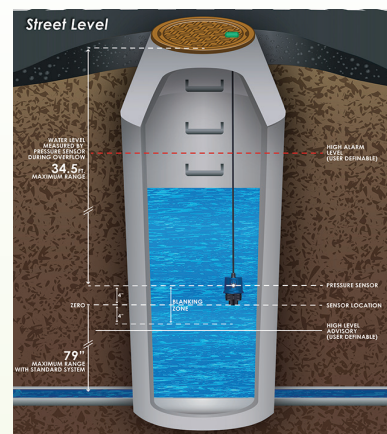
- First Notification: Advisory
- Second Notification: Alert
- Third Notification: Alarm

Alarm acknowledgement, alarm level threshold and system status can be changed and viewed remotely via a SmartCover secure website. SmartCover technology was engineered to solve industry problems at high value and low burden. This award-winning remote level and flow monitoring system is a completely self-contained, turn-key solution developed specifically for the municipal water and wastewater industry in close collaboration with industry leaders.

With a satellite-based data transmission, the system is designed to operate when there is no cell service or power. Providing reliable two-way data transmission, the system provides real-time continuous remote sensing, user-definable alarm settings, an easy-to-use web-based interface, long- and short-term data collection and analysis. Built to operate at sites that are environmentally difficult, have no power or communications, SmartCover provides ‘instant infrastructure’ – it can operate virtually anywhere in the world, installation is quick, and is online and ready for use immediately.

In addition to preventing sewer spills, SmartCover’s award-winning suite of technology has a range of applications including the reduction of high frequency cleanings (HFC), locating inflow and infiltration (I&I), intrusion detection, and H<sub>2</sub>S control.

For further information on SmartCover, contact Flow Systems at 250-258-1079 or visit [www.flowsystems.ca](http://www.flowsystems.ca).



## Features

- Remote level and flow monitoring
- Visibility from bottom of the invert to top of the cover
- Level accuracy on narrow inverts
- Reliable satellite communications impervious to power or cell outages
- Data transmission from anywhere on earth
- Easily attaches to any manhole or hatch
- No need for confined space entry to install or maintain
- Traffic rated antenna
- Accurate and timely notifications
- Integration of comprehensive analytical software
- Web-based dashboard with real-time graphs & reports
- World class customer service
- Integration with rain, river and tidal data
- Real-time blockage, I&I, H<sub>2</sub>S trend analysis
- Locates blockage from fats, roots, oils, grease (FROG's)
- Overflow prevention
- Triage manholes during storms
- Improved resource allocation