

SmartFLOE™

Open Channel Flow Estimation

HOW IT WORKS

Monitoring flow measurement is highly valuable for any open channel water conveyance. By applying Manning's equation to water level, SmartFLOE™ is a cost effective means to estimate flow rates in open channels. In addition to flow measurements, SmartFLOE enable receipt of vital data to detect surcharge conditions & prevent overflows. Manning's equation is used quite successfully for estimating flow when conditions are uniform & steady without significant change inside the pipe over time.

SmartFLOE is effectively used for:

- Tracking inflow & infiltration (I&I) when combined with rain data
- Capacity assessments
- Influent & effluent measurements
- Environmental & storm water flows
- General flow monitoring
- Bypass monitoring
- Determining wet vs. dry weather ratios

FLEXIBLE & RELIABLE

Flow level optimized estimation (FLOE) provides low cost, low maintenance & highly reliable means for flow measurement & reporting. Conventional flow measurement methods can be expensive & complex. Reliability, ease of maintenance & data communications are often challenging. Our satellite communication coupled with no confined space entry installation & service makes SmartFLOE more flexible & reliable than AV meters with faster results, lowest cost of ownership & reduced risk.

Calibration can be matched to within 1% of A/V meter results.

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[LI: SmartCover Systems](https://www.smartcoversystems.com)

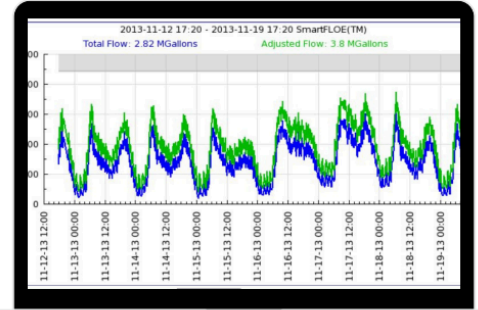
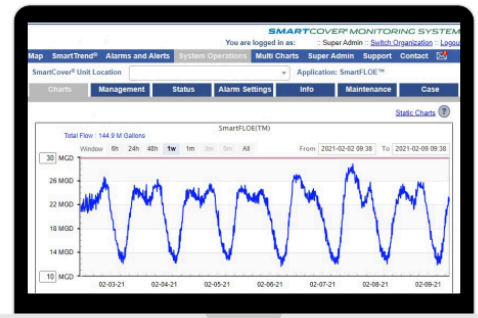
www.smartcoversystems.com

SMARTCOVER
A Badger Meter® Brand



SmartFLOE™

Open Channel Flow Estimation



SMARTCOVER FEATURES

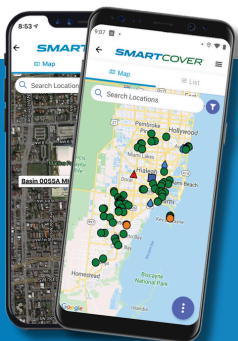
- Hardware components engineered to function in wet, humid, corrosive conditions
- Flexible patented sensor designs & deployment
- No confined space entry* installation or service
- Reduces traffic management resources
- Secure, online dashboard with easy-to-read, visual reports
- Compact, long lasting battery
- Two-way communications permits remote settings management
- Done-for-you analytics
- Fusion with rain, river & tide data
- Works when there is no power
- Satellite coverage works with sites difficult to access & withstands cellular outages
- Variable timing options for data scan & notifications
- 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, reservoirs & utility vaults

WHERE IT WORKS

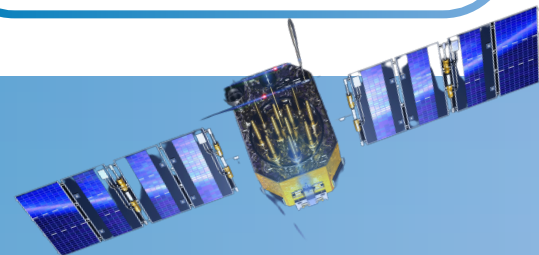
For best results when selecting a site for SmartFLOE, follow these guidelines:

- FLOE is most accurate on larger lines; smaller lines with low flow can result in sub-optimum results
- Position the sensor at the inflow side of the manhole
- A location with one straight pipe, without slope or shape changes, upstream from where the sensor is measuring water level

If a target manhole has less than optimum conditions, it's possible to use SmartFLOE on one or two manholes upstream or downstream from your target location where conditions may yield better results.



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



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