

RIPTIDE FOG_{MONITOR}

Outsmart Your Grease Problem!



FOG Problems - The Bigger Picture

Grease is the #1 cause of pipe blockages and sewage spills

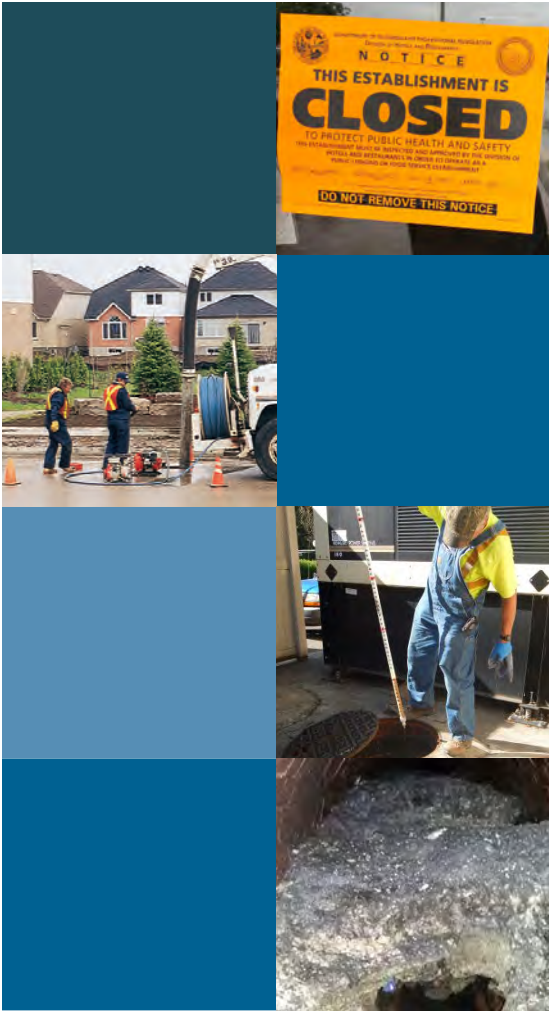
In 2017 Engineers in Baltimore estimates that 85% of the pipes are blocked by FOG.

Grease from restaurants is estimated to account for 70% of sewer blockages according to the US EPA

US EPA estimates over 40,000 raw sewage overflows each year due to FOG blockages

Between Dec1, 2007 and Oct 6, 2012, Miami-Dade reported to EPA numerous sanitary sewer overflows (SSOs), totaling more than 50 million gallons. Of these SSOs, more than 28 million gallons of untreated wastewater reached navigable waters of the United States

FOG Programs - The Impacts & Damages



Enormous Economical Impact

- hundreds of million dollars in lost revenue through facility closures, clean-ups & repairs, fines, litigation and brand damage to food service establishments (FSEs)
- Billions of dollars in regulatory measures, from increased inspections & bylaw enforcement to costly clean-ups, sewage line & equipment repairs or replacements

Immense Environmental Damages

- Spillages causing severe health & safety issues, as well as infrastructural and property damage

FOG Problems - Controlling the Discharge

Use of FOG Control Device Mandated in Most Jurisdictions

- Gravity grease interceptor
- Hydromechanical grease interceptor

Essentially specialized tanks for separating and trapping FOG

Control Device is Not a Set-And-Forget Device

- Current level monitoring technology are inadequate; a "Sludge Judge" is still a common practice, however it is time-consuming, odorous and unreliable core samples
- Many jurisdictions have implemented a mandatory pump-out frequency and maximum FOG level within the interceptor, as well as strict logging requirements
- Heavy fines & penalties for non-compliance
- Improperly maintained interceptor can cause backflows which can lead to costly damages and expensive clean-ups

FOGMonitor - Grease Level Monitoring System

Riptide FOG Monitor – a grease level monitoring system that monitors fats, oils, grease (FOG), water and solid levels in grease interceptors. An alert is activated when the interceptor is full and ready to be pumped out, allowing improvements on efficiency, reliability, sustainability and economics in the FOG management process.



When the FOG level reaches a pre-set level an audible and visual alarm alerts that a pump-out is required

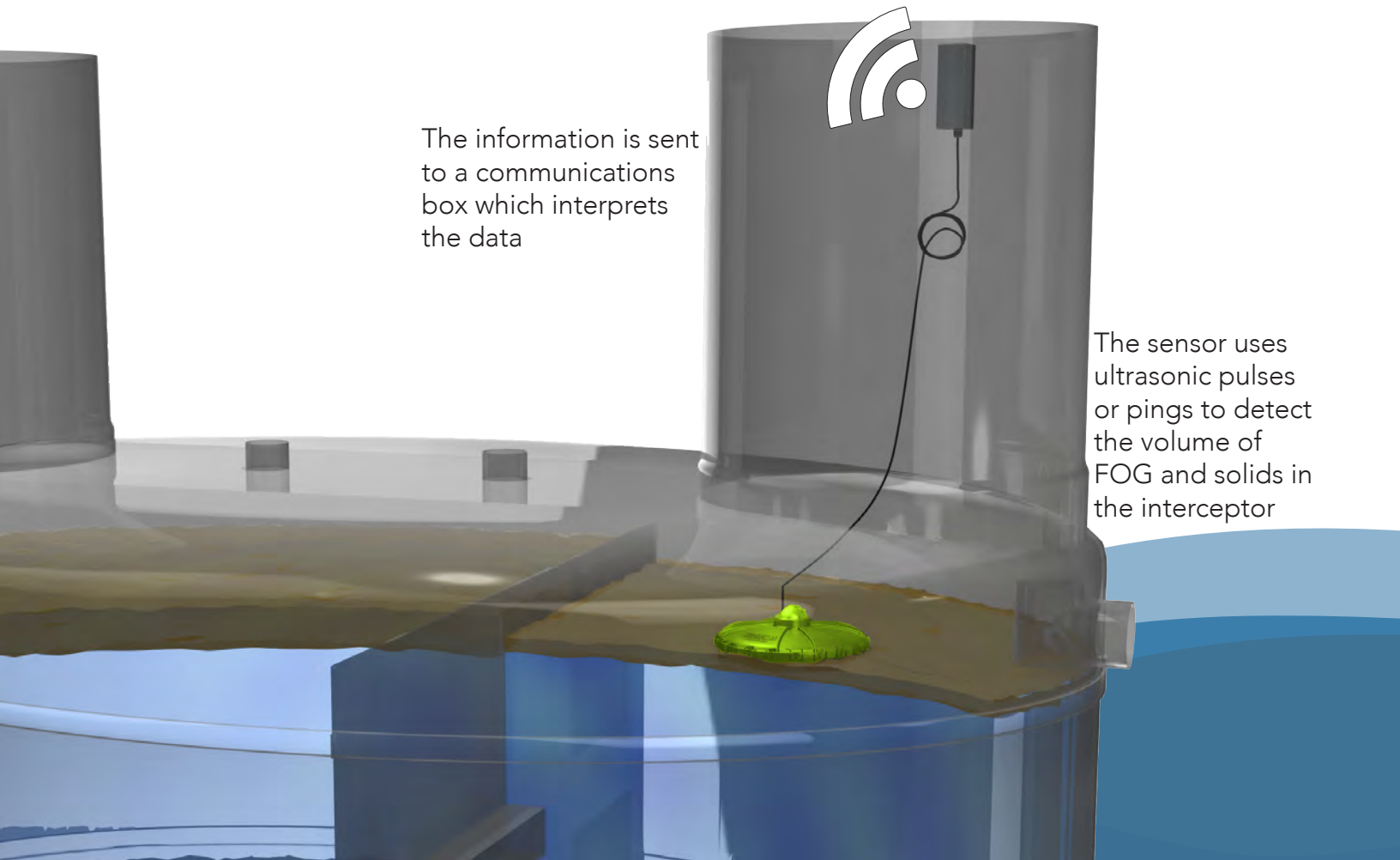


The information is wirelessly transmitted to a control display showing the FOG and solid levels within the interceptor

The information is sent to a communications box which interprets the data



The sensor uses ultrasonic pulses or pings to detect the volume of FOG and solids in the interceptor



FOGMonitor Features

Alarm & Notification Capabilities

- Audible & visual alarm notify when out of compliance

Low Power Requirement

- Long battery life for communications device (up to 2 years)
- Display with power saving features and very low power consumption

Advanced Data Processing and Learning Software

- Easy-to-read display & controls
- Logging & reporting capabilities

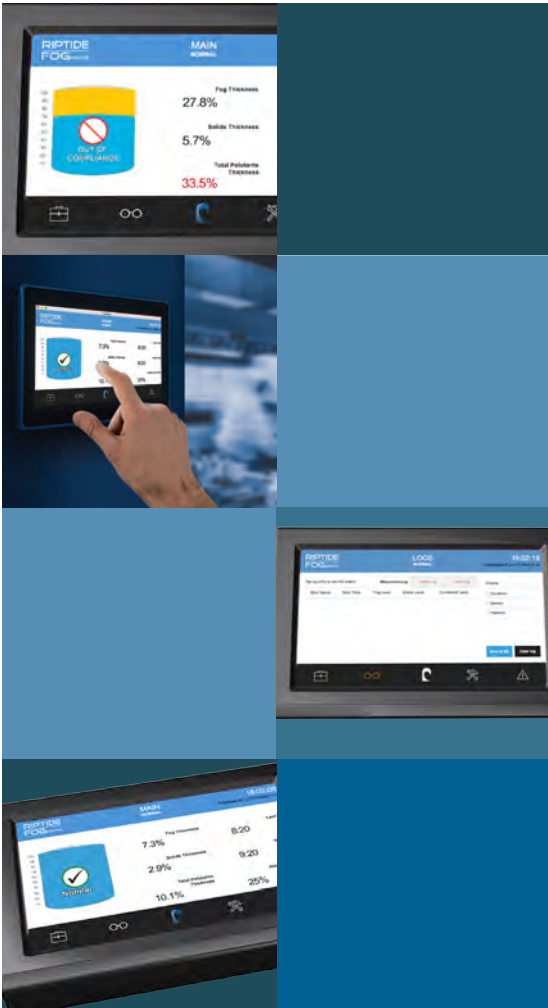
Quick & Easy Install

- Float is free-floating and connected to communications box by reinforced flex cable

Float & Box Corrosion, Temperature & Impact Resistant

- IP67 sealed enclosure using fibreglass reinforced plastic
- Sensor temperature range to 66°C/150°F
- IK08 impact resistance rating
- 100kg cable strength

FOGMonitor - Benefits to Customers



Streamline Your Pump-out Handling

- Potential to save money through optimized clean-outs
- No more time-consuming, smelly hand-held and unreliable monitoring of the FOG level in your interceptor
- Ensure compliance. Many regulators will even consider an extension of the pump-out frequency if the FOG level within the interceptor can be reliably shown to be lower than the regulations

Ease of FOG Logging & Reporting

- Accessible reports for regulatory compliance

Knowledge of Grease Levels

- Display shows your FOG level and facility's state of compliance

Improve your Community Stewardship & Branding

- Avoid costly and unsanitary sewer blockages
- Promote best management practices

Improve Your Relationship to Regulators

- Stay in compliance with municipal regulations

FOGMonitor - Technical Specifications

Control Panel

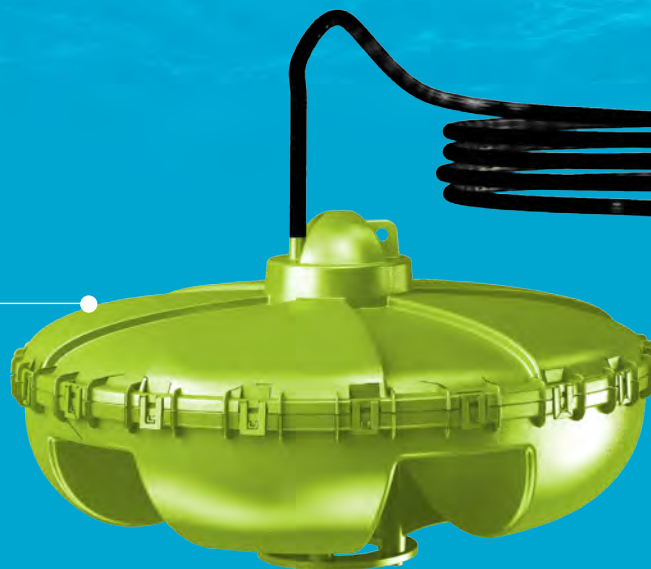


Material:	Waterproof and corrosive/vibration/shock resistant - sensor and communications box
Sensor:	Ultrasonic immersion type transducer
Control panel:	LED touchscreen
Interceptor size:	100 gallon capacity or greater
Power supply:	PCM box - 2 year long-life 3.6V lithium battery Control panel - 110V AC power adapter
RF signal ranged:	+400ft from PCM box to control panel
Antenna:	Tuned RF flat antenna

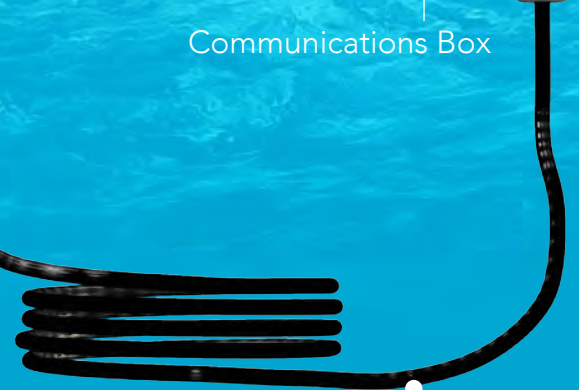
Communications Box



Sensor



Power and Communications Cable



Riptide Tek - Company Background



Riptide Tek FOG Monitor was born from a need for a reliable smart meter technology that can detect the FOG and solid levels in a grease interceptor. And send the information wirelessly to a display panel without the need of opening the grease interceptor; saving both time and money as well as preventing overflows to the sewers.

With over 2.5 million grease interceptors in North America, a reliable grease level monitoring technology is required by restaurants, food manufacturing plants, cafeterias, hospitals, airports, schools, nursing homes, and stadiums, any institutions that has a commercial grease interceptor.



Riptide Tek is part of the Monteco Group of Companies and leverages over 25 years of expertise and success in developing and producing innovative "Clean Tech" products for municipal, industrial, and commercial water/wastewater around the globe.

Active portfolios

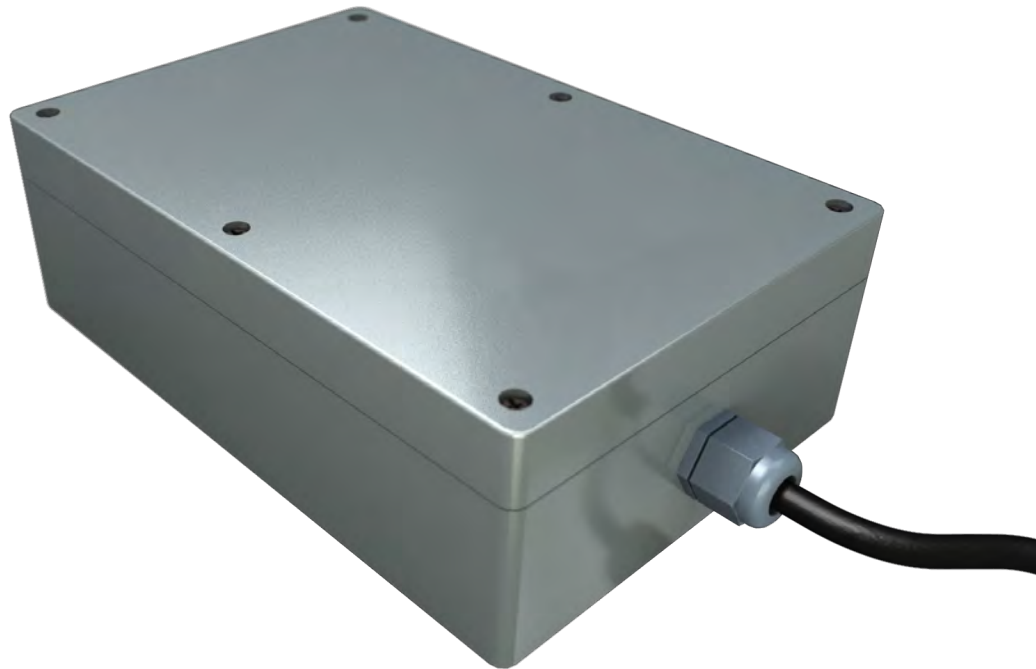


Divested portfolios



FOGMonitor - In Action





Patent pending



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