

Smartpro for Stormceptor®

Remote Monitoring of On-site Stormwater Treatment Devices

Stormwater treatment devices are commonly designed to trap and store both sediment and oil from urban stormwater runoff. Many devices also capture oil spills that may occur at gas stations, ports, commercial or on industrial sites.

While installing a treatment system step is important in protecting our waterways, it is also critical to establish a process to regularly monitor the oil levels in these units to ensure proper clean out of the captured toxins.

Manual Monitoring is Risky



On many commercial and municipal sites, the person or group responsible for monitoring the stormwater treatment units is often unclear. At best it is added to the Facility Manager's list of tasks. But without proper resources or training, a Facility Manager is too often unprepared to fulfill the necessary duties to ensure proper maintenance is being performed. In addition, should an unreported oil spill occur, the stormwater treatment device could then be holding a large amount of hydrocarbons for long periods of time if frequent monitoring is not being carried out.

Oil Alarm

Installing an oil level alarm sensor and control panel takes the risk out of monitoring. The sensor is typically set to issue an alert when the Stormceptor unit has reached 85% of its oil storage capacity. Maintenance can then be scheduled for the proper unit clean-out the unit.

This monitoring system will also alert the owner of any accidental industrial spills so that they can respond to it immediately to reduce the risk of contaminating the environment.

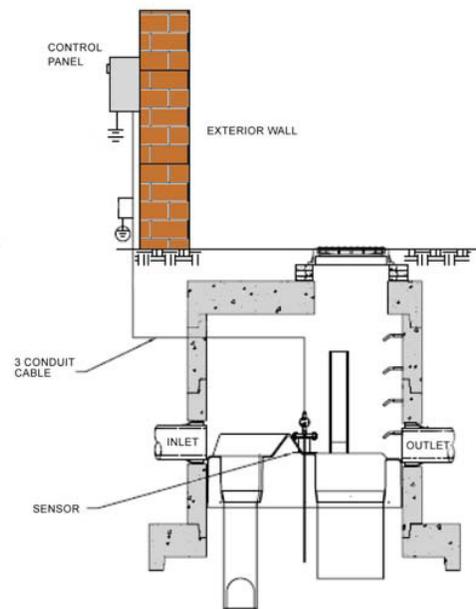


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Installation

These monitoring systems are installed onsite during the initial construction of the Stormceptor. This involves mounting a control panel at a convenient indoor or outdoor location and laying power and communication cables from the panel to the treatment device.

Alternatively, these systems can be installed to retrofit a pre-existing Stormceptor.



Technical Specifications

Control Panel

Operating Temperature	-20 °C to 60 °C
Power Input	24 vdc or 110 vac or 220 vac
Alarm Relay	5 amp, DPDT, dry
Standards	UL, CSA
Enclosure	Type 4X, IP65
Optional	Lights, buzzer

Sensor

Process Temperature	-60 °C to 260 °C
Ambient Temperature (sensor head)	-60 °C to 50 °C
Approval	CSA class 1, Zone 1 & 2 Div 1 & 2, groups A, B, C, D (also available with an intrinsic barrier on the 9830-OWS) ABSA-CRN #OF07450.2

Features & Benefits

- No moving parts
- Remote electronics via standard twisted pair
- Available with Intrinsic Safety Barrier for hazardous locations (explosion proofing)
- High corrosion resistance Teflon and stainless steel wetted parts
- Capacitance technology responds to all oil types
- Easy calibration and control set-up
- All calibration, control relays and power wiring is available at the main control panel. This can be safely mounted up to 1/2 mile (1 km) away from Stormceptor