FUEL LEAK DETECTION SYSTEM

Smart Sensor Technology Fuel Leak Detection System provides 24/7 environmental protection. Thanks to our revolutionary devices, users can get "peace of mind" to focus on their core business. Leaks won't be a problem anymore.

The sensor detects the presence of free phase hydrocarbon in monitoring wells, due to a physical chemical reaction in our patented cartridge, and activates an alarm that can be local (sound buzzer and LED alarm) or remote (SMS and email alarms).

Through its modular design, SST Fuel Leak Detection System can adapt to a variety of client needs, fitting different situations and ensuring environmental control 24/7.

Features

- Physical chemical sensors.
- Radiofrequency communication system.
- Smart Gateway.
- Cloud based solution or Local solution.
- Replaceable cartridges.
- 7 years lasting battery.
- Remote configuration.
- ATEX protection.
- Reliability.
- Easy installation.
- Maintenance free.
- No false alarms

Sensor

Detection device. Floats in the water air interface of the monitoring well, and activates the alarm when a leak appears. It fits monitoring wells from 2" onwards. Doesn't need civil work nor maintenance. It can communicate to the gateway through the RF system or straight wired.

Dimensions	40mm X 330mm
Protection	ATEX Zone I. IP 68
Weight	105 gr
Detection	Physical Chemical Reaction
Cartridge	Internal Cartridge Replaceable
Reaction	Free phase HC (DRO and GRO)
Connection	Wired to RF module or directly to Gateway

RF Device

Radiofrequency communication module. Reads the information from sensors and forwards it to the gateway. 7-year battery lasting robust device, doesn't require maintenance nor civil works. "Plug and play" device with remote configuration. It can also work as a repeater to expand the signal up to 1km.

Dimensions	98mm X 37mm X 45mm
Protection	ATEX Zone I (868Mhz) Zone 2 (915Mhz) IP68
Battery	3.6 V Li. (7 years lasting)
Civil work	Not needed
Communication	RF Signal 868 or 915 MHz
Transmission period	Fully configurable
Data reading	Sensor status

SmartGate

Gateway. Receives information from sensors and manages it. When a leak is detected the gateway activates an alarm that can be local or cloud based, depending on client preferences. "Plug and play" devices with fully remote configuration.

Dimensions	28mm x 22mm x 15mm
O.S.	GNU/Linux
Communication	868/915 MHz, 25mW
Power supply	5 V Micro USB
Power consumption	2.5 A (4.0 W)
Networking	Wi-Fi Hotspot, 10/100 Ethernet, GPRS (2G/3G)
CPU	1.2GHz 64-bit quad-core ARMv8
Communication Period	Fully programable
Data outputs	1 x Analog & Digital, 3 x USB Ports, 1 x SPI
Data exchange methods	JSON / XML
Wake up call	On demand