

## 03/ OILSPY Piezo

### **Explosion Proof and intrinsically safe Floating Hydrocarbons Detector for Piezometer**

**SIL2  
Certified**



**OILSPY PIEZO** is used to monitor groundwater tables as well as variable water level installations where space restrictions do not allow the use of buoys or slides.

**OILSPY PIEZO** detects floating hydrocarbons thanks to a polymer membrane (cf sheet n° 01) that is held in tension on a float that follows the variations of the groundwater table. This float holds a dead weight also connected to the **OILSPY** moving axis.

When in contact with hydrocarbons, the membrane dissolves, releasing the dead weight that pulls down the moving axis, activating the relay mounted on the electronic board inside the **OILSPY**.

The current loop passing through the detector is opened and this triggers an alarm. This alarm is then transmitted by electric cable or radio to either an **OILSPY** Alarm Station (cf sheet n° 09) or directly to the end user's control system.

### Specifications

Material : Cast aluminum  
Protection : IP68  
Ambiant T° : -20°C à +60°C

### 2 modes of alarm transmission

**Wired:**

Ref. 1628b: *OILSPY ATEX Piezo Wire connection*


**Wireless:**


Please contact us: *OILSPY ATEX Piezo Radio*

### Certifications

INERIS 03ATEX0184

SIL2

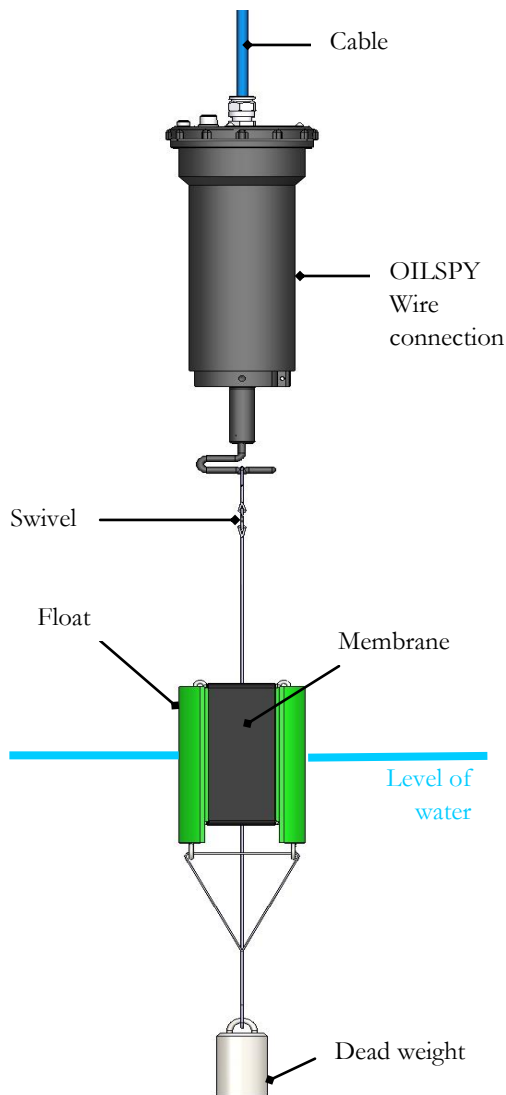
 II2G Ex d IIC T6 Gb

 II2G Ex ib IIC T4 Gb

EN 61508 / 50495 :2010

# OILSPY Piezo Wire Connection (1628b)

⇒ Specifications are identical to those of Oilspy Standard,  
for more details please see data sheet n° 02



## Explosion proof version

Mass:	about 1.5 kg
Max Load Power:	1W
Max. Tension accepted:	100V
Max. Current accepted:	250mA
Cable length:	up to 1000 meters

## Intrinsically safe version (IS)

To use only with a certified type of equipment, whose the output circuit is recognized intrinsically safe for IIC explosive atmospheres group.

The association must check safe's rules according to following parameters:

Max input characteristics:

$U_i = 30 \text{ V}$ ;  $I_i = 100 \text{ mA}$ ;  $P_i = 1,2 \text{ W}$

Max exposed characteristics:

$C_i = 0 \text{ F}$ ;  $L_i = 0 \text{ H}$

Cable length: fixed according of associate equipment's characteristics

⇒ To protect it, the whole Piezo system (OILSPY, float, membrane, dead weight) is usually inserted in a 4" piezo tube, ideally suited to be used in a piezometer:



## Accessories

- Alarm Station (ref. 1645c) sheet n° 09
- Radio Receiver sheet n° 10

## Other Versions

- OILSPY Standard sheet n° 02

## Installation Supports

- 4" piezo tube with brackets Ref. 1642