



# 06/ RIVER AND BASIN BUOY

## Mounting Accessory for OILSPY Standard



Ref. 1801

The River and Basin Buoy is a mounting option for the **Standard OILSPY** hydrocarbons detector (sheet n°02).

It constantly maintains the membrane of the detector in contact with the water surface, allowing an efficient detection of floating hydrocarbons.

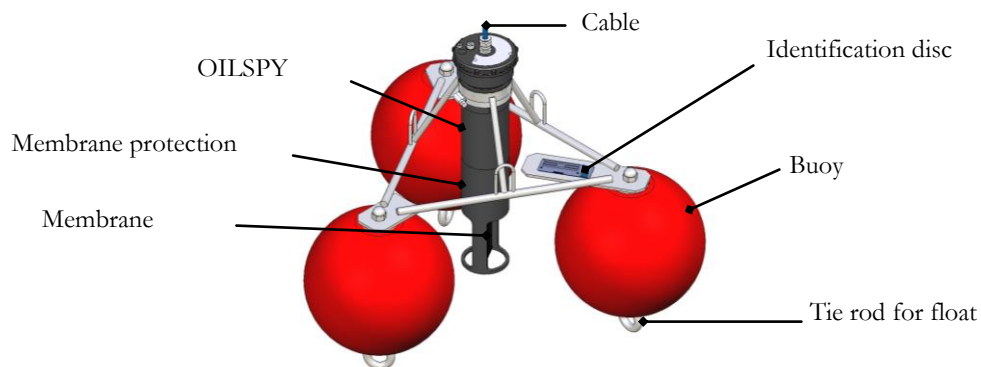
Its design makes this buoy well-adapted to moderate streams with water level variations such as rivers, basins and lakes.

### 2 Versions

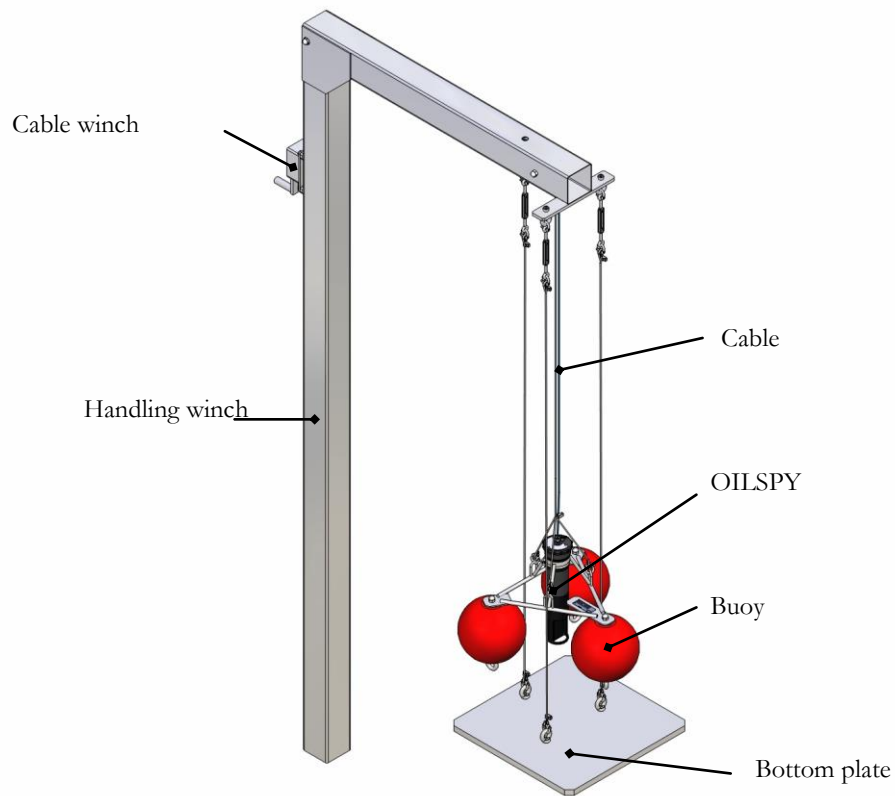
### Description

- 3 floats at 120° allowing a good stability of the **OILSPY** detector
- a simple mechanical structure with a quick clipping device to allow easy membrane replacements

- Ref. 1801 : 60 cm diameter  
Total mass equipped: about 4.7 kg  
Flottability : about 4.8 kg
- Ref. 1671a : 90 cm diameter  
Total mass equipped: 5kg 370  
Flottability : 10 kg



## Example of a handling winch for buoy





# 07/ SLIDE

## Mounting Accessory for the OILSPY Standard



This photo is an illustration of a specific slide.

The Slide is a mounting accessory for the Standard OILSPY hydrocarbons detector.

The detector is attached to a floating assembly and guided vertically. It allows its use in space restricted sites with variable water levels:

- Decanting basin, collector, output canal, aqueduct...

### 3 fixing versions

- Ref. 2455A : wall mounting bracket
  - Ref. 2455A : stackable dead weights (Slices of 9kgs)
- Ref. 2455A:** Deported stackable dead weights (Slices of 9kgs)

### Specifications

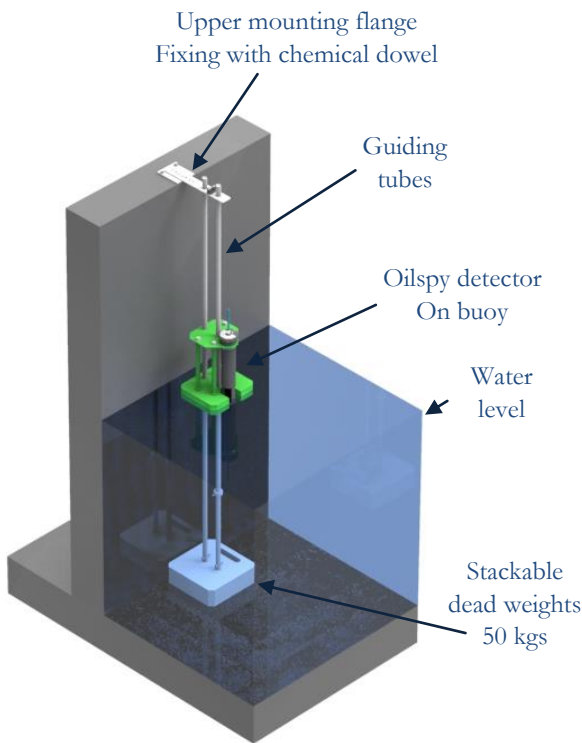
- Guiding tubes material: Stainless steel AISI 316L
- Guiding tubes length:
  - Stackable dead weights and wall mounting bracket versions :  
Min : 2m      Max : 6m
  - Deported stackable dead weights version:  
Min: 1m      Max: 1m50

### Description

- The slide is made of the guiding assembly (2 guides and 2 mountings high and low) and a float.
- **Water level variation:** +/- 70 cm around a medium level with a 2 meters long standard version (other lengths available upon request)
- **Material :** Stainless steel AISI 316L
- For maintenance purposes, the floating assembly can be lifted by pulling the OILSPY's cable

	Total standard mass (without buoy)	Buoy mass
2455A	Stackable dead weights 55kgs (2m)	900g
2455A	Wall mounting bracket 5.5kgs (2m)	
2455A	Deported stackable dead weights 55kgs (1m50)	

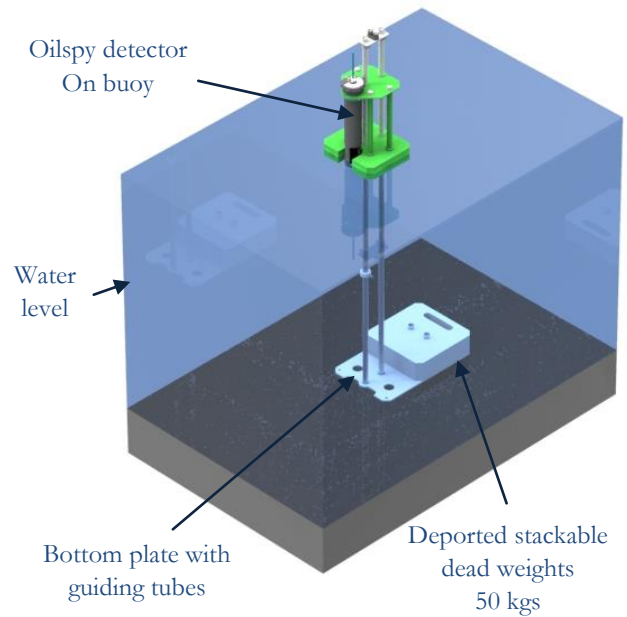




**Slide mounting system 2455A**  
**Stackable dead weights fixation \***

- Access/fixing to the bottom impossible
- Quick and easy implementation
- Minimum length: 2m

***Special application***  
***slide mounting***  
***system on request***

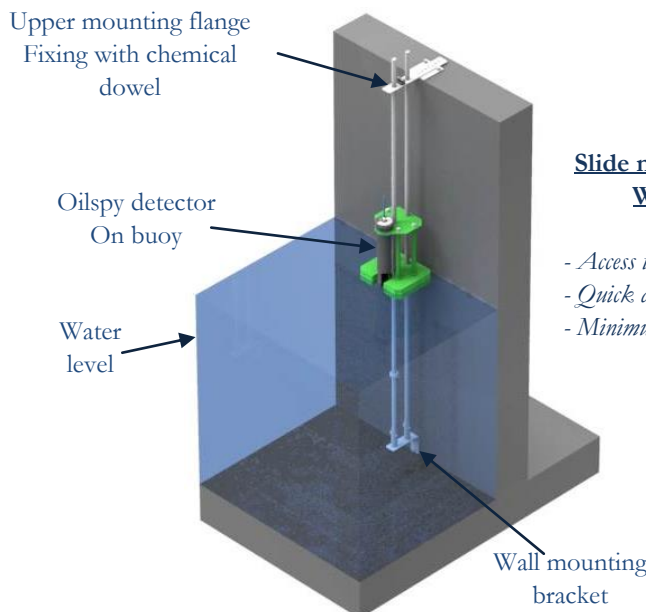


**Slide mounting system 2455A**  
**Deported stackable dead weights**  
**fixation \***

- Access/fixing to the bottom impossible
- Quick and easy implementation
- Dry or low water detection
- Maximum length : 1m50

*\* Dead weights are supplied per 9kgs stackable slices; the weighted weight of the system can be adjusted as required.*

*The system can also be supplied without dead weights, and sealing screws are then proposed to fix the bottom plate to the ground.*



**Slide mounting system 2455A par**  
**Wall mounting bracket**

- Access to the bottom impossible
- Quick and easy implementation
- Minimum length : 2m



## 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

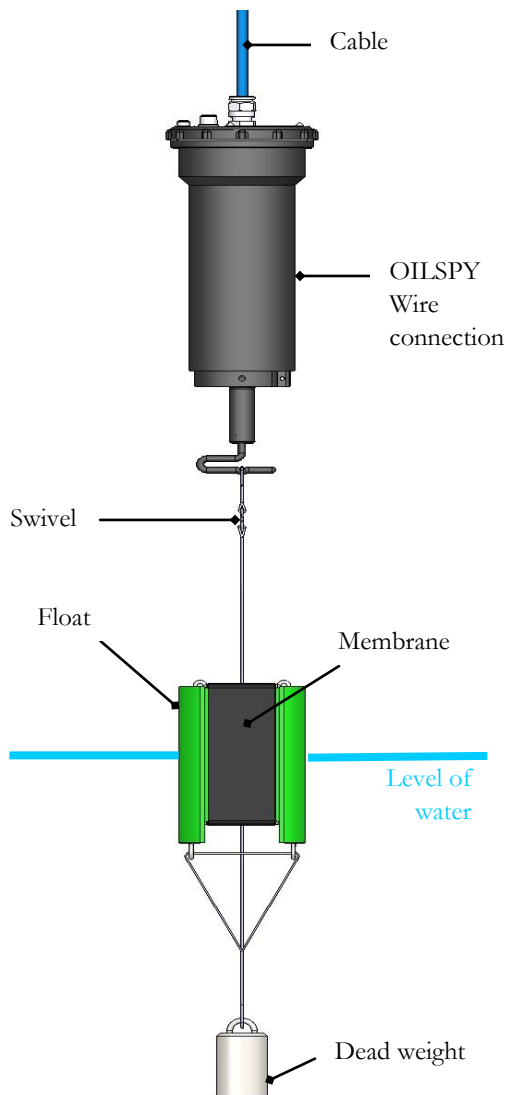
II2G Ex ib IIC T4 Gb

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