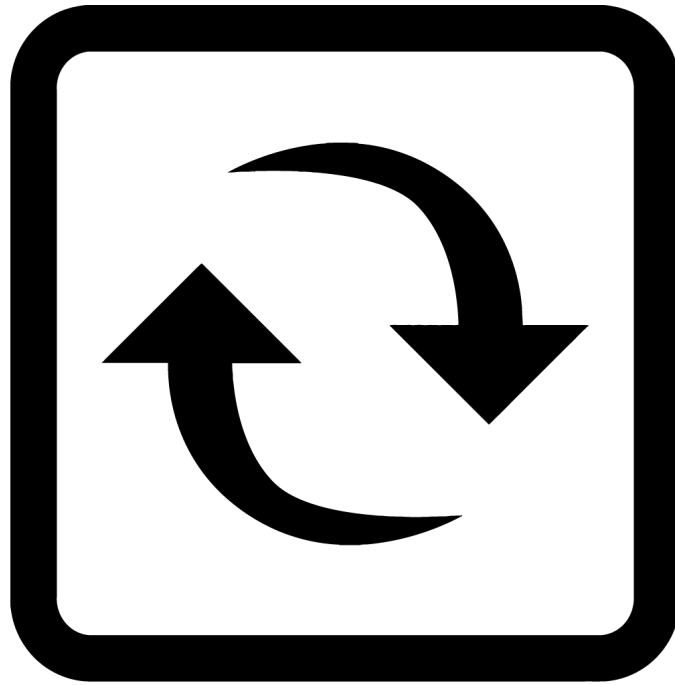


# ENV-LEAK-OPTICAL



**INFRASENSING**

**Sensor Application Guide**

## I. Sensor overview

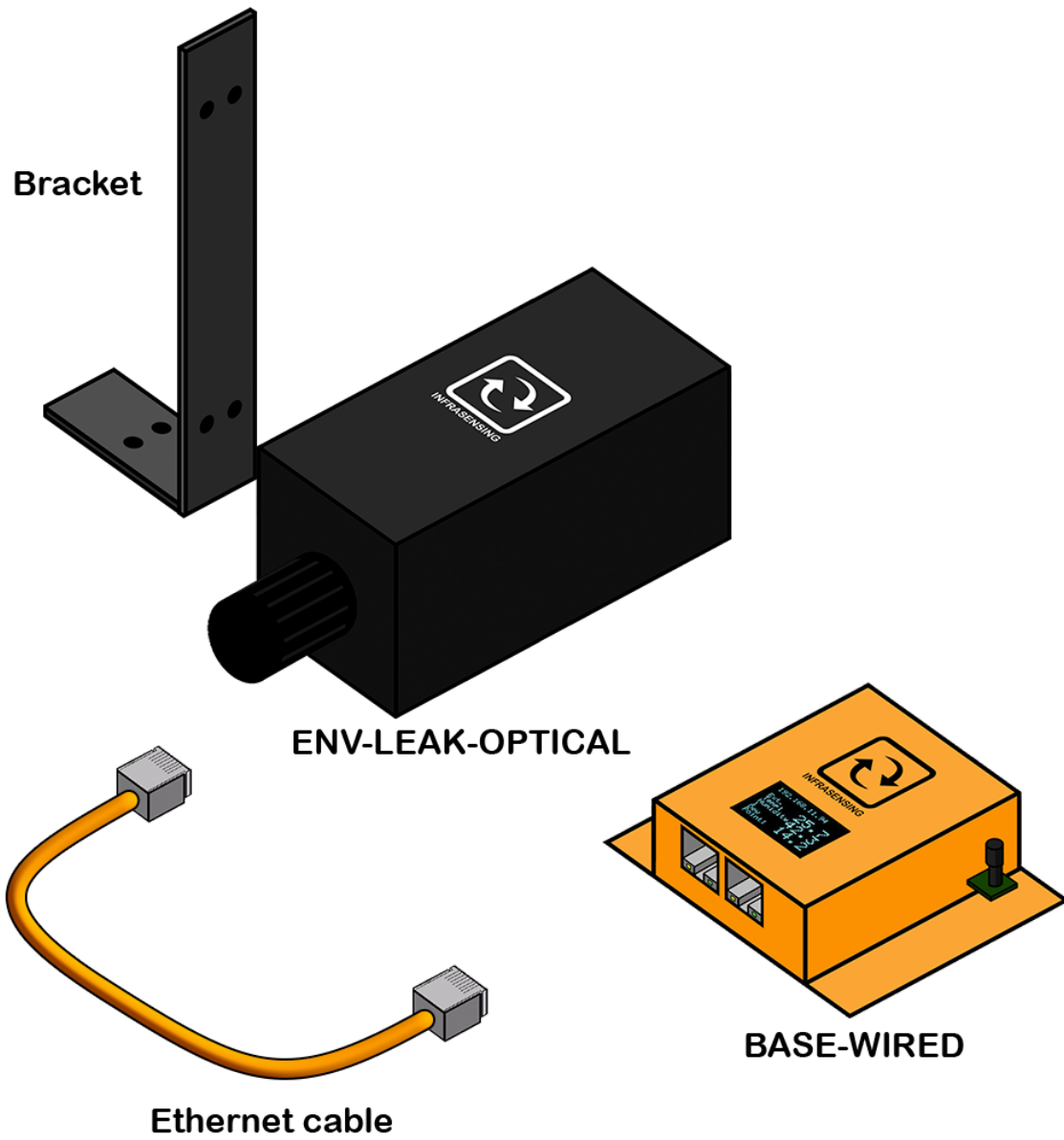
The ENV-LEAK-OPTICAL is a contactless, reusable sensor to detect the presence of hydrocarbon in liquid form on surfaces.

*View of the Sensor*



This document will guide the users on how to properly install the sensor in different areas as well as do's and don'ts while using the product.

## II. REQUIRED MATERIALS



### III. Installation

1. Survey the area where you will mount the sensor. (possible source of oil leak)
2. Make sure that the area is clear of oil and contaminants.
3. The sensor will react differently depending on the type of surface:

| Surface        | Example                      | Max height of the sensor from surface |
|----------------|------------------------------|---------------------------------------|
| Reflective     | Tiles, Water, Glossy surface | 10 cm                                 |
| Non reflective | Cement, Rough surface        | 5 cm                                  |

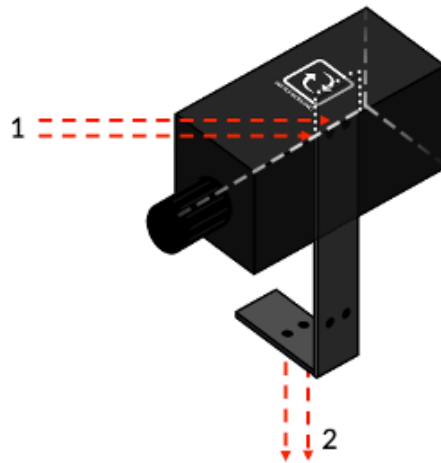
4. After determining the type of surface, we need to mount the sensor using the bracket at an appropriate height based on the table above.

**Note:** Height should be from the Sensor Window at the bottom towards the surface.

### IV. Suggested mounting positions

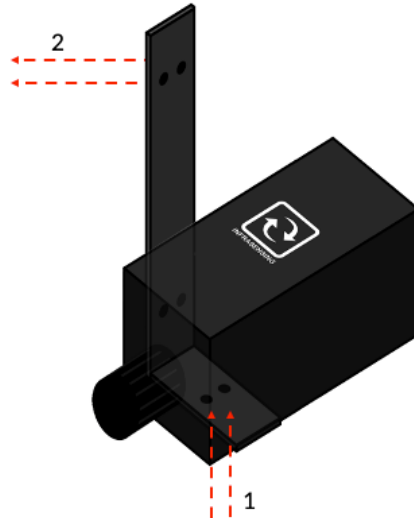
#### 4.1. Floor mounting

1. As shown on the image below, use screws to mount the bracket on the side of the sensor.
2. On the surface or floor use screws to affix the bracket.



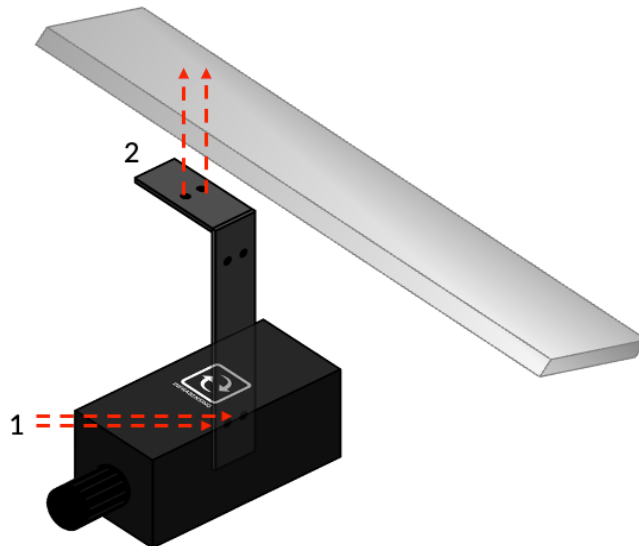
## 4.2. Wall mounting

1. As shown on the image below, the bracket fits on the latch at the side of the sensor.
2. Use screws to mount the bracket to bottom part of the sensor.
3. Use screws to mount the bracket towards the wall.



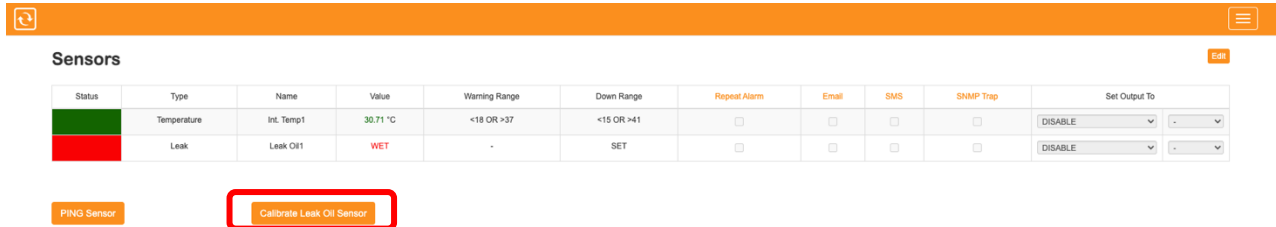
## 4.3. Suspended mounting

1. As shown on the image below, use screws to mount the bracket on the side of the sensor.
2. Use screws to mount the bracket where it will hang onto.



## V. Calibration Procedure

1. Access the SensorGateway's Web interface for the calibration procedure.
2. On the sensor status page, click "**Calibrate Leak Oil Sensor**"



The screenshot shows the 'Sensors' page in the SensorGateway web interface. It features a table with columns for Status, Type, Name, Value, Warning Range, Down Range, Repeat Alarm, Email, SMS, SNMP Trap, and Set Output To. Below the table, there are two buttons: 'PING Sensor' and 'Calibrate Leak Oil Sensor', with the latter being highlighted by a red rectangular box.

| Status | Type        | Name       | Value    | Warning Range | Down Range | Repeat Alarm             | Email                    | SMS                      | SNMP Trap                | Set Output To |
|--------|-------------|------------|----------|---------------|------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------|
| Green  | Temperature | Int. Temp1 | 30.71 °C | <18 OR >37    | <15 OR >41 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DISABLE       |
| Red    | Leak        | Leak Oil1  | WET      | -             | SET        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DISABLE       |

Accessing the SensorGateway is referenced starting at page 14.  
[http://manuals.serverscheck.com/InfraSensing\\_Sensors\\_Platform.pdf](http://manuals.serverscheck.com/InfraSensing_Sensors_Platform.pdf)

3. Wait for 10 seconds for the calibration of the sensor.

## VI. Do's and Don'ts

The following must be observed when operating the ENV-LEAK-OPTICAL sensor:

### 6.1. Do's

- Keep the surface of the area clean for optimal detection.
- Use a microfiber cloth to clean the sensor window.
- Regularly check the sensor window if there are contaminants as this may affect accuracy.
- When moving the sensor to a different area, revisit the steps for mounting and calibration procedure.

### 6.2. Don'ts

- Do not place the sensor on surfaces such as wood and plastic.
- Do not place the sensor in dirty or sandy environments that may cause scratches to the sensor window.
- Do not use abrasive materials or harsh chemicals when cleaning the sensor window.
- Do not obstruct the sensor window.