

## USE

This alarm system detects the oil level in the separator compartment just before shutter.

Photovoltaic alarm is suitable for isolated sites where there is no power supply available.

In addition, photovoltaic cell makes it possible to produce the electricity required for the installation by transforming part of the solar radiation.

## OPERATING PRINCIPLE

The control unit can control up to 6 sensors installed on 2 different separators (3 sensors per tank). The unit controls the status of connected probes every 30 minutes (adjustable frequency). The current status is displayed on the 2x16 LCD screen located on the front of the unit.

The detection of hydrocarbons is done by conductivity, the water behaves like conductor while the hydrocarbons behave like insulators.

The probe consists of 2 stainless parts, when one of two parts is immersed in hydrocarbons, a signal is sent to the control box that triggers the alarm.

The unit control detects the alarm condition of the sensor.

The unit comes in two versions:

- one reports alarms with a visual and sound signal
- the second transmits the state of the probe by GSM (SMS on mobile phone).

The central alarm signal, a modem, or other external alarm devices can also be connected to the relay.

## TECHNICAL CHARACTERISTICS

Ambient temperature : -20°C to 50°C

6 sensor inlets

Voltage : 12 Vcc

Relay outlet : 12Vcc, 100mA

Box protection : IP65

Intrinsic safety : [EX ia] IIC (-20°C ≤ Ta ≤ +50°C)

ATEX certification : Baseefa08ATEX0171X

Length of probe cable : 5 m

## INSTALLATION

See installation sheet :

- P086 for PE oil separators.
- P087 for steel oil separators.

The installation and use instructions are delivered with the alarm.

The maximum length of the probe cable is 200 m.

All connections must be made by a professional, assistance may be proposed as an option.

It is essential that the solar panel is oriented toward the south, that its line of sight towards the sun is clear and that it is free of foreign bodies (ex. leaves).



Solar panel power alarm - serial flashing light

## MAINTENANCE

The sensors can be exposed to harsh environments. It is recommended to inspect and clean them regularly. The maintenance of the pieces of the control unit may not be performed by the user.

For any repairs, consult us.

## ADVICES AND STANDARDS

The oil level alarm allows to satisfy the requirements of the standard EN858 which imposes its using for the use of oil separator.

Reference	Description
ANH22/14506	Visual and sound oil level alarm IP65 with solar panel
ANH22/14507	Visual and sound oil level alarm IP65 + GSM with solar panel

### Options :

SNH/14200	Sensor detection the hydrocarbon level
SNB/14220	Sensor detecting the sludge level
SNL/14210	Sensor detecting the liquid level
SP102-21	Stainless steel bracket for sludge sensor in steel oil sep.
MR-ANH	Connection pipe ATEX
CR-ANH	Extension cable 2 wires (for oil sensor)
CR-ANH-3	Extension cable 3 wires (for sludge and liquid sensors)