

## Alarm System For Oil Separators

### AUTOMATIC ALARM SYSTEMS FOR OIL SEPARATORS (INTERCEPTORS) TO WARN OF HIGH OIL, SILT AND LIQUID LEVELS.

- Warns of excessive levels of oil, liquid and silt
- Tells you exactly when the separator needs emptying
- Reduces waste management costs
- Designed to comply EN858-1&2 and PPG3
- Can be fitted to separators from all manufacturers

Oil separators (Interceptors) are typically installed in drainage systems below ground. They are designed to trap oil and other hydrocarbons that have entered drains, preventing pollution incidents. If oil, silt or liquid reaches excessive levels, oil can pass through the separator and pollute watercourses which may result in expensive fines and clean up costs for the owner.

European Standard EN858-1 suggests separators are fitted with an alarm that warns of excessive liquid levels, and for the alarm to be fitted, tested, commissioned and serviced by a competent installer.



### HOW IT WORKS

Three probes are fitted in the separator to automatically monitor the oil, silt and liquid levels.

An alarm will alert you via a control panel or mobile phone if danger levels are reached allowing you to take corrective action.

Separator alarms are offered with an installation and service package designed to comply with EN858-1 and the environment agency's pollution prevention guideline document PPG3.

### Technical details

A variety of controls are available which can be programmed to meet your specific requirements for maximum flexibility. A typical alarm would consist of a high level liquid probe, an excess oil probe, and a silt probe in each separator. However, if site conditions permit, the control can be used to monitor a varying amount of probes in a varying amount of separators.

**SIGNIFICANTLY REDUCES WASTE MANAGEMENT COSTS.**

### MAIN POWERED SEPARATOR ALARM



Ideal for new build sites or where mains supply is readily and easily available making installation efficient and cost effective. This unit has an audible alarm and a liquid crystal display and is operated by means of a simple Push switch. An output relay is provided which allows the use of an external sounder or beacon and can also be connected to your building management system (BMS).

Darcy can tailor your separator Alarm to your requirements by displaying your name and contact details on the liquid crystal display and fitting your custom label (please ask for details).

#### Specifications

- Mains powered
- Steel Enclosure 165 x 165 x 55mm
- Power: 230VAC
- Output: Clean Contact Relay
- Display: Liquid Crystal
- Alarm: Audible (local)
- Probe range: 200 metres max. (dependant on cable style)
- ATEX approved: Baseefa 08ATEX0110



### SOLAR POWERED SEPARATOR ALARM



Ideal for retro fitting to existing separators or on sites where power is not easily accessible. The Solar Alarm removes the need for digging ducts and laying long cable runs, making installation efficient and cost effective.

The standard system is supplied complete with an intrinsically safe control unit together with a high oil probe and a steel mounting stand. The control unit is capable of monitoring up to 6 probe units in 2 separator tanks (3 probes per tank), to automatically monitor oil, silt and liquid levels notifying immediately when the separator needs emptying and therefore eliminating unnecessary waste management visits.

The status of the probes is displayed via a liquid crystal display which can be customised to display your messages.

There are 2 Solar Alarms available from Darcy, the Beacon System alerts the user by means of a flashing amber xenon beacon, alternatively

there is the GSM System which will alert the user via mobile phone text messaging.

#### Features

- Supports dual separators (oil, liquid and silt)
- Operator switch
- Beacon output (can use beacon and GSM together at the same time)
- Rotating Solar Panel
- Supports 4 digit area code numbers, such as 0800, in addition to 5 digit area codes
- Supports up to 8 phone numbers for notification when an alarm condition occurs
- Battery condition reported in continuous range from 0 to 100%
- Solar panel voltage can be measured
- Firmware and settings can be remotely upgraded (only if GSM module fitted)

#### Specifications

- GRP enclosure 430 x 330 x 200mm IP66
- Power: 12V battery, charged by solar panel
- Display: 16 x 2 character LCD
- Alarm: Beacon or text message
- Probe range: 200 metres max. (dependant on cable style)
- ATEX Approved: Baseefa 08ATEX0171X