



SEPARATOR ALARM

# Control systems



**Watercare 054/5**  
Solar Powered Separator Alarm

We **care** for your **water**



## General Operation

The Watercare 054 and 055 Separator Alarms have a built in battery management system to optimise power consumption. Under normal operational circumstances, the Solar Panel attached to the stand will keep the battery sufficiently charged. Led's on the PCB monitor this. The RED Led indicates the battery is charging and the GREEN Led indicates the battery is fully charged. Both Led's OFF indicates there is not enough current light to operate the solar charging circuit.

An on-board programmable integrated circuit will automatically interrogate the probe/s and battery condition every 30 minutes displaying either 'ALL CORRECT' or any alarm condition detected, dependent on type and number of probes fitted, on the LCD which is visible through the viewing panel in the enclosure door. The status of the probe/s can however be checked at any time (other than when displaying an alarm condition) by simply pressing the 'ACCEPT' button.

Because the control monitors probe units within a potentially explosive environment, it is extremely important that the intrinsic safety of the system is not compromised and remains intact throughout the units life. With this in mind, at every 12 month interval, a message will be displayed on the LCD (and a text message will be sent on GSM versions) recommending that the system is checked and its operation and intrinsic safety re-validated.

## Watercare 054 - Flashing Beacon System

A high intensity Beacon, fitted to the stand above the Control Unit (code 054 only), will flash when an 'Alarm' condition is detected and display the type of Alarm e.g. SILT, EXCESSIVE OIL, HIGH LIQUID LEVEL, dependant on the number and type of probes installed, on the LCD. The beacon will continue to flash for 3 minutes every 30 minute period or until the alarm is accepted by pressing the 'ACCEPT' button.

## Watercare 055 - GSM System

The 055 control is fitted with a GSM transmitter unit. The status of the 055 unit can be tested at any time by simply sending it a specified text message via a dedicated mobile phone. The 055 will respond via text showing its current condition. Any separator alarm condition e.g. High Oil, High Level, Silt Build-up and Low Battery will be sent automatically and on receipt must be accepted by the receiver. If any alarm message sent is not accepted, the message will be sent again every 30 minutes.





## Key Attribute

No mains power source required

Monitoring options

Quick Alarm

Ability to monitor all separators from either a localised or centralised point.

Alert Options

Ensures environmental compliance

Early identification of potential pollution incidents

Potential reduction in waster management costs

Orchard Watercare Remote Response Facility



## Key Benefit

Easy to retro fit in existing installations or in remote locations. The unit requires minimal civils to be installed.

Can monitor 2 separators with any combination of:  
High Oil - High Liquid - Silt  
Maximum of 6 sensors

With line of sight, the flashing beacon alerts the end user. With GSM capability, a text message is sent instantly and repeated every 30 minutes until acknowledged. Alternatively, both beacon and GSM can be supplied together.

All GSM separator alarms can be reviewed from anywhere in the world via SMS messaging.

- Beacon
- Sounder
- GSM - via text

Environment Agency Guidelines PPG3  
Environmental Liability Directive 2004/35/EU  
Water Industry Act 1991  
Complies with EN858-1 & 2 Guidelines

Designed to alarm at 90% capacity allowing positive action to pre-empt an incident

Enables separators to be emptied as and when required rather than regular planned runs, thus reducing emissions, waste disposal and environmental costs.

Allows Orchard Watercare to monitor your separators and provide the necessary responses to warning alarms - 24/7

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For Domestic, Garden and Commercial applications.
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From 300 to 100,000 Litres
- **CONTROL AND MONITORING EQUIPMENT**
- **SUBMERSIBLE AND ABOVE GROUND PUMPS**
- **TOTAL DESIGN SERVICE**  
Design service available for Domestic and Commercial applications .
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### ACCESSORIES

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- **Pressure Vessels**

### SEPARATOR ALARMS

- **Mains powered alarms**
- **GSM alarms**
- **Web based alarms**
- **Wired and Wireless sensors**

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