



## Multi-Probe Alarm Type PP/CAEx

**The Multi-Probe Alarm Type PP/CAEx is designed to monitor an oil separator tank for build-up of oil or fuel, or a grease separator for a build-up of fat, oil or grease.**

An alarm sounds and an LED beacon flashes when an alarm condition is detected. An LCD displays messages to indicate alarm conditions. There are variants available with different power capabilities, one mains powered, the other battery powered.

Alarm warnings allow you time to take corrective action ensuring the safe and economic operation of separators preventing oil or FOGs passing through the separator and polluting watercourses which may result in expensive fines and clean-up costs.

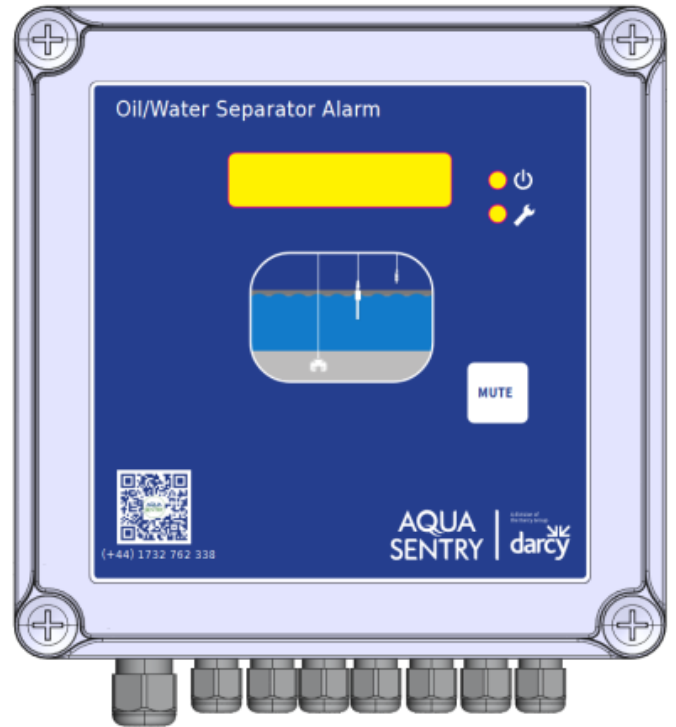
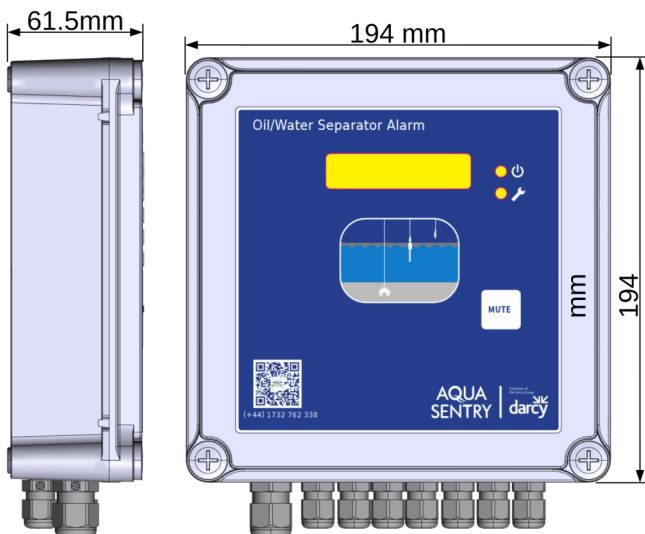
Darcy can tailor your separator alarm to your requirements by displaying your name and contact details on the liquid crystal display and fitting your custom label (please ask for details).

### Benefits

The alarm system and sensors guarantee an increased level of safety and requires simple installation for bespoke monitoring of oil and grease separators.

- Warn of excessive levels of oil, liquid, silt or FOGs
- Tells you when the separator needs emptying
- Reduces waste management costs
- Designed to comply with EN858-1 and 2
- Can be fitted to separators from all manufacturers
- Reduces separator servicing costs
- Ensures safe and economic operation of separators.

### Dimensions



### Contact Us

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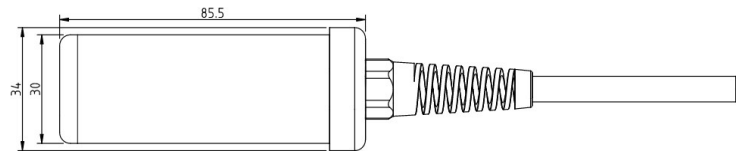
# Specifications

## Control Panel

Enclosure	ABS (base), ABS (lid) IP65
Enclosure Dimensions	194mm (W) x 194mm (H) x 61.5mm (D)
Unit Weight	0.75—2 kg depending on variant
IP Classification	IP65
Display	16 x 2 character LCD (LCD variant only) Red/Green power LED Yellow service LED 3 x red/green probe input LEDs (LED variant only)
Operating Temperature	-20°C ... +50°C
Supply Voltage (Mains variant)	230VAC ±10% 50/60Hz
Power Consumption (Mains variant)	1.5W, 2.3VA, 0.01A, cos φ = 0.65
Electrical Safety	IEC/EN 61010-1:2010+A1:2019, Class II, CAT II
Battery Type (Battery variant)	4 x AA (LR06) 1.5V alkaline primary cells
Battery Runtime (Battery variant)	Typically 2 years
Single Mode Alarm Inputs	IN 1: Conductivity probe or float switch with volt-free contacts  IN 2: Conductivity probe or float switch with volt-free contacts (J10 = 1-2, SW1-4 = OFF) or Silt or High Level Opto Probe (J10 = 2-3, SW1-4 = ON)  IN 3: PP/DGP-1 Capacitive FOG Probe (can be silt probe depending on build variant ordered)
Dual Mode Alarm Inputs (Unit can be switched between oil separator and grease alarm modes)	<i>Oil separator high oil detection by conductivity probe:</i> IN 1: Conductivity probe IN 2: Silt probe IN 3: High level float switch probe with volt-free contacts  <i>Oil separator high oil detection by PP/DGP-1 Capacitive FOG Probe:</i> IN 1: High level float switch with volt-free contacts IN 2: Silt probe IN 3: PP/DGP-1 Capacitive FOG Probe  <i>Grease separator:</i> IN 1: Conductivity probe or high level float switch with volt-free contacts IN 2: Silt probe IN 3: PP/DGP-1 Capacitive FOG Probe  <i>Cess pit using PP/GCT-4136 LR03 Level Regulator Probe:</i> IN 1: Input is not used in a cess pit application IN 2: Input is not used in a cess pit application IN 3: PP/GCT-4136 LR03 Level Regulator Float Switch Probe— <b>this probe must NOT be used in an Ex-application. Is is NOT Simple Apparatus.</b>
Relay Outputs	4 x bistable relays, volt-free SPDT contacts Maximum allowed voltage, current and power is determined by EN 60079-11:2012 Cl. 6.3.14 to be 5A, 250V AC / 30V DC, 100VA. Do not exceed.
Beacon Output	Output suited for use with PP/BCN-1-2 LED beacon. Flashes on alarm condition.
Audible Alarm	Internal beeper sounds intermittently on alarm condition. Can be muted by pressing a key on front panel. Can be disabled with jumper link J14.
Keypad	Front-panel MUTE switch, internal RESET switch, and internal TEST switch.
Ex Classification	⊕ II (1) G [Ex ia Ga] IIB (-20°C ≤ Ta ≤ +50°C)

## PP/DGP-1 Capacitive FOG Probe

Enclosure	S303, plastic IP68
Enclosure Dimensions	85.5mm (L) x 30mm (Dia.)
Cable	Fixed 3-core 0.5mm <sup>2</sup> . Length 5m. Can be extended externally to 200m
Weight	390g (including 5m cable)
Operating Temperature	0°C ... +50°C (ambient temperature) Do not allow direct exposure to sunlight
Specific Marking of Explosion Protection	⊕ II 1 G Ex ia IIB T4 Ga (-20°C ≤ Ta ≤ +50°C)



## LED Beacon PP/BCN-1-2

Enclosure	ABS (base), PS (lens) IP65
Enclosure Dimensions	73mm (Dia.) x 48mm (H) 11.5mm (Base mounting plate height)
Operating Temperature	-20°C ... +50°C
Operating Voltage	6V
Current Consumption	35mA
Static/Flash	Flash rate and duration controlled by firmware in control panel
Lens Colour	Red
Cable Length	5m



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