

# EMA Signal OSA

## Separator alarm system

### Level alarm for oil, gasoline or grease separators.

- Capacitive measuring principle
- ATEX certified
- High level alarm with extra probe

Separators for oil, gasoline or grease should have an alarm unit.

Separators for oil, gasoline and oil must be emptied in time. This is normally a requirement from the authorities. The separator alarm OSA gives an alarm signal so that the separator can be emptied before any hazardous liquid leaves the separator.

#### Application

The Afriso ema type OSA alarm system with capacitive and special thermistor type sensors is designed specially for use with gasoline, oil or grease separators.

#### Description

The OSA alarm system consists of a wall mounting control unit with two output relays, integrated piezo-electric buzzer and LED indicators, an ES4 capacitive probe for oil alarm and an optional R6-special thermistor probe for high level liquid alarm, both probes are designed for use in Ex-zones.

Each probe is fitted with a 5 metres long cable, and is suspended in the separator chamber to the required level. The tip of the ES4 probe should be mounted 150 mm below the constant water level in the separator. At this setting the OSA will give an oil alarm for a gasoline or oil/grease layer of 150 mm.

The OSA unit will also provide a separate high level liquid alarm if fitted with the optional R6-special thermistor probe. The high level liquid alarm is given when the level reaches the R6 probe, for example if the separator outlet is blocked.

The control unit monitors both probes and provides audible and visual alarms at preset oil and high levels, or in the event of short circuit or open circuit in the probe wiring.



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### Technical specifications:

Housing:	For wall mounting. Front panel with integrated touch buttons and background illuminated LCD display 4x21 characters.	Power supply:	AC 230 V.
Dimensions:	175 x 125 x 75 mm (W x H x D).	Power consumption:	4 VA.
Weight:	0,7 kg.	Relay outputs:	2 switching/voltage free. Contact ratings AC 250V / 4A / 100VA
Protection:	IP65.	Ambient temperature:	0°C / +40°C.
Cable entries:	5 off (7-10 mm).	Alarm indication:	Via text in the LCD-display.
OSA Certificate no:	SP04ATEX3620X II (I) G [Ex ia Ga] IIB	Audible alarm:	Integral piezo-electric buzzer.
		Test function:	Via menu option

## Accessories

### Sensor ES4

Length:	220 mm, Ø25 mm.
Certificate no:	DNV 22 ATEX 80661X II 1 G Ex ia IIA T4 Ga

### Sensor R6-S

Length:	100 mm, Ø22 mm.
Intrinsic Safe Design:	II 1 G Ex ia IIA T3 Ga

### Applies to all sensors:

Temperature of separator liquid:	-25°C - + 50°C.
Sensor cable:	5 metres oil resistant (Also available with 20 m cable).
Max length sensor cable:	200 m (2 wires - not included).