

EMA SIGNAL OSA Oil 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.

As a normal requirement from Environmental Authorities all Oil Separators containing Gasoline, Oil or Grease must be periodically emptied. The OSA separator alarm is designed to provide an alarm signal that indicates that the separator should be emptied prior to any hazardous liquid contaminating the environment.

Application

The Afriso ema type OSA alarm system with capacitive and special thermistor type sensors is designed specifically for use with Gasoline, Oil or Grease separators.

Description

The OSA alarm system consists of a wall mounted control unit with two output relays and an ES4 capacitive probe providing an oil alarm. The alarm condition on the control is indicated by an integrated piezo-electric sounder and LED indicators. An optional R6-special thermistor probe for high level liquid alarm can be fitted with both probes being EX certified.

Each probe is fitted with a 5 metre 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 or open circuit in the probes wiring.

