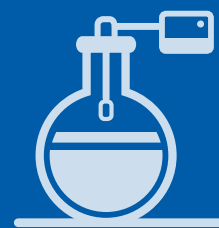


Labkotec alarm devices for oil and grease separators



Protect the environment by preventing pollution accidents

Monitor alarm levels for grease, oil and sludge in separators

Monitor leakage in separators

Indication when separator needs emptying
– reduce waste management cost

Ensure undisturbed operations
of oil and grease separators

Fulfil requirements of
EN 858-1&2 standards

Fail-safe



LabkoNet®
COMPATIBLE



Measures for a better tomorrow

Labkotec
INDUTRADE GROUP



Sustainable measurement solutions

Prevent damage

Oil and grease separator systems play a vital part in preventing environmental damage. Reliable operation of a separator can only be achieved when separator alarm devices are installed. This is the only way to effectively prevent environmental damage, and avoid associated liability risks.

Save money

Maintenance costs can be significantly reduced with efficient alarm systems which ensure that the separator is emptied only when necessary.

Meet the requirements

All Labkotec alarm systems for oil separators have ATEX, IECEx and UKEX approvals and the sensors are suitable for installation in hazardous areas.

Monitor 24/7

For unmanned sites or no supply voltage available, battery or solar panel operated systems with an internal modem offer efficient 24/7 monitoring package. Additionally you can let LabkoNet monitor the sites automatically.



The EN 858-1&2 standard stipulates that alarms must be used in oil separators, and simultaneously form the basis for the CE-mark on oil separators.

Labkotec alarm devices are approved in accordance with the ATEX directive 2014/34/EU, IECEx and UKEX.

LabkoNet® compatible

Labkotec alarm devices can be connected to the cloud based LabkoNet system with an internal modem or with the separate Labcom modem. LabkoNet is an easy and reliable way to transfer and control remotely alarm data. For further information on LabkoNet and its key benefits, please visit www.labkonet.com



Choose the market-leading solution

Labkotec offers the widest range of alarm devices on the market for oil and grease separators. Special attention to the design of various models, has improved reliability and performance, which plays a vital role in protecting the environment.

With LabkoNet remote monitoring system, you can transfer alarms automatically to right people.

LabkoNet provides a visual view of the status of alarms on the separators and allows a quick response to the situation.

By using remote monitoring you can use measurement data to facilitate decision making.

Key advantages of Labkotec alarm devices and remote monitoring

- Meet the demands for various standards and regulations.
- There is an immediate alarm if, for example, a serious oil spill occurs, thus preventing severe environmental damage.
- The costs of routine servicing are kept to a minimum. The separator will be emptied only when the alarm indicates that the grease, oil or sludge levels have been exceeded.
- Separator leakage into the environment is monitored.
- Save costs and improve operational efficiency with LabkoNet remote monitoring.

Alarm devices for oil separators



idOil® alarm devices

idOil alarm systems are designed for monitoring liquid levels in oil separators.

idOil control units



NEW!
4 relay outputs

idSET-34 oil separator alarm

The design of the new generation idSET-34 is the result of Labkotec's long experience and customer feedback, as well as the latest requirements from European norms.

Up to three different types of idOil sensors can be connected polarity-free, and they are identified automatically with a one-touch commissioning feature.



LabkoNet®
COMPATIBLE

idOil-30 oil separator alarm

Up to three idOil sensors of any type can be connected polarity-free, and they are identified automatically with a one-touch commissioning feature. The idOil-30 offers extremely easy commissioning, flexible configuration locally via WLAN, as well as alarm logging. Available also with an internal modem and in 12 V DC operation voltage.



idOil-D30 oil separator alarm

The idOil-D30 has the same features as the idOil-30, but is smaller in size, and can be mounted in an electrical cabinet on DIN rails.

Most common application areas

- Petrol stations
- Garages
- Airports
- Motorways
- Parking lots
- Oil handling areas



idOil sensors

All idOil sensors are polarity free digital sensors. This speeds up installation and commissioning, and saves on cabling costs.

idOil-LIQ high liquid level sensor

Indicates when the liquid level in the oil separator rises excessively e.g. in an outlet blockage situation.



idOil-OIL oil sensor

Detects oil and indicates when the separator's oil storage is full.



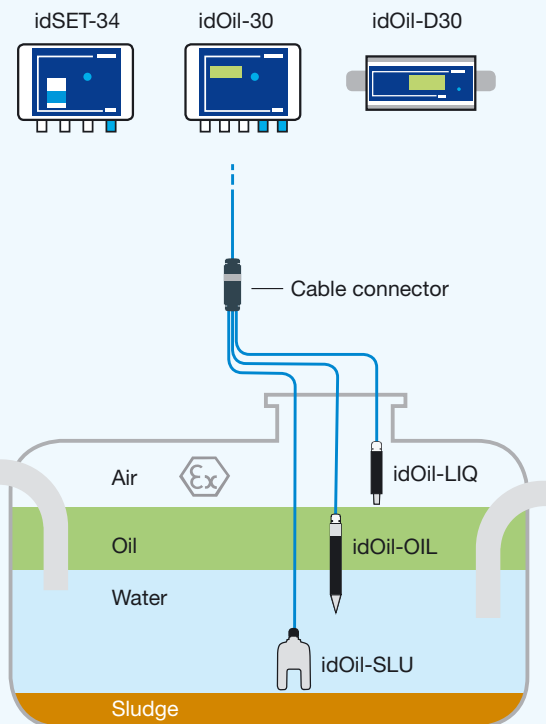
idOil-SLU sludge sensor

Monitors the sludge layer in the oil separator and indicates when the sludge layer has reached its maximum level.



Applications

With the idOil alarm system, excessively high liquid levels, oil layer thickness and sludge layer thickness can be monitored.

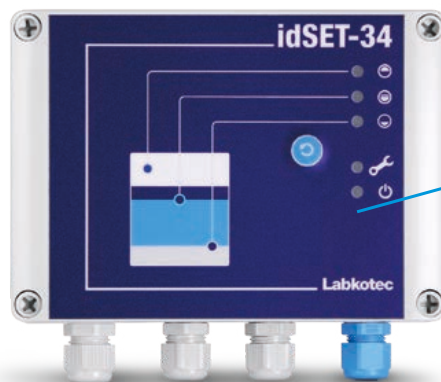


Alarm devices for oil separators



See the status at a glance

Thanks to the distinct LED lights you can see the status of your separator and idSET-34 alarm device at a glance.



Integrated display and local wireless configuration



Local display and alarms

View the system status on idOil-30 or idOil-D30 control unit display. The integrated display offers easy access to device status on most important alarms and failures on the control unit.



The browser user interface for comprehensive settings and configuration

WLAN connection locally between a control unit and laptop/tablet/smartphone. When further settings and configurations are needed, they can be performed via an inbuilt browser user interface. Alarm information, the service, and maintenance diary, and the data log are accessible via the user interface.



Flexible separator alarm system build-up



Complete idOil alarm system packages

idOil alarm systems are available in complete packages.

Choose a control unit and sensors and create an alarm system according to your needs.

Below is an example of a typical idOil alarm system package and coding of the package name.

idOil-30 LOS package consists of:

- Control unit **idOil-30**
- idOil-**LIQ** high liquid level sensor
- idOil-**OIL** oil sensor
- idOil-**SLU** sludge sensor
- Cable connector LCJ1-3
- Mounting kits for control unit and sensor

*idOil-30 LOS
alarm system
package*



Alarm devices for oil separators

idOil-30 special applications



*idOil Solar with
beacon light*



idOil Solar



idOil Solar oil separator alarm

The idOil Solar is a solar powered oil separator alarm for off-grid areas. It can be equipped with a beacon light and/or an internal modem.

In an alert situation, the beacon light will flash and/or an alarm message will be sent to the user's mobile phone or LabkoNet. The idOil Solar control unit has the same features as the idOil-30.

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idOil-30 Battery special versions

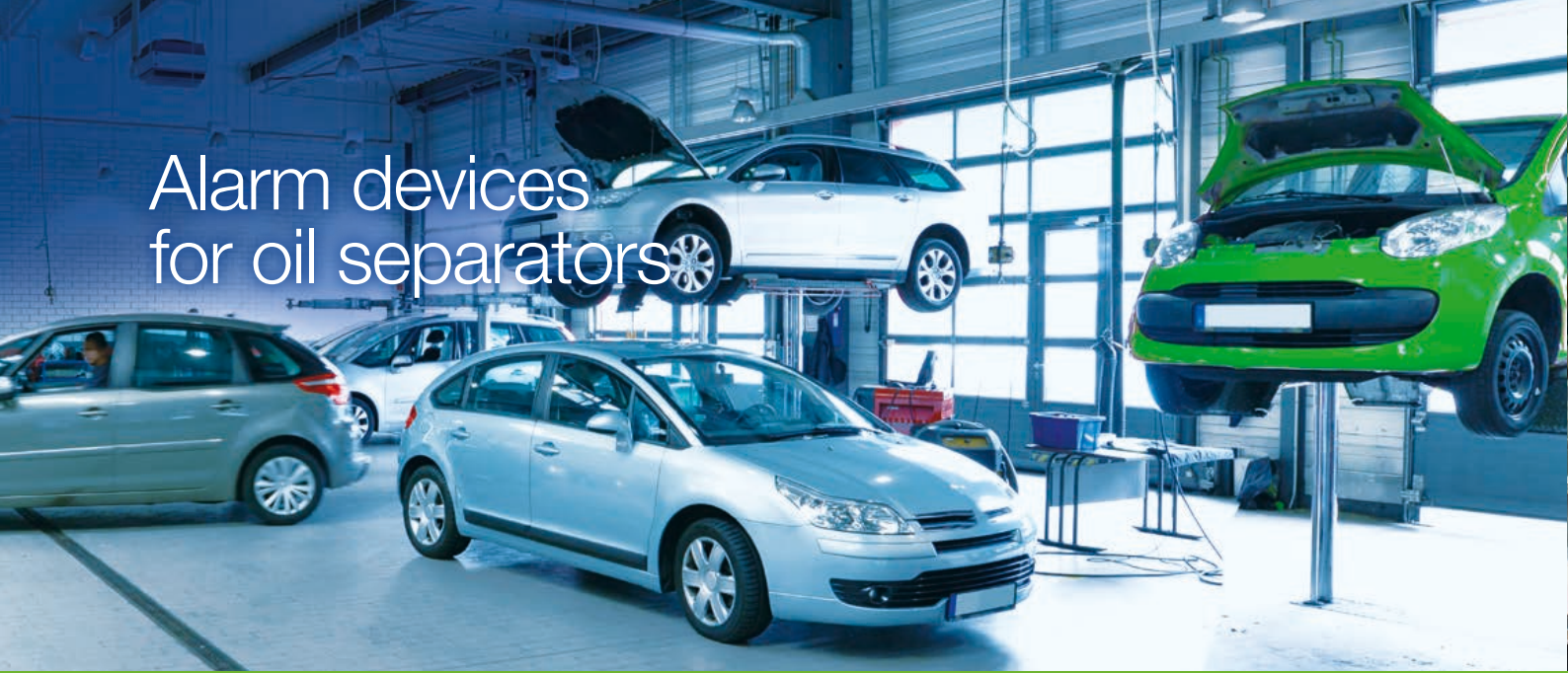
The idOil-30 control unit is also available with a 12 V DC power supply and the option of an internal modem. With the modem an alarm message will be sent to the user's mobile phone whenever an alert situation occurs.

idOil control units' main features



	idSET-34	idOil-30	idOil-D30	Notes
Mounting	Wall mounted	Wall mounted	M36 DIN rail mounted	
Mains-powered	230 V AC	100-240 V AC	100-240 V AC	
12 V DC		idOil-30 Battery		Low power version.
Solar-powered		idOil Solar		For off-grid areas.
Alarm status LEDs	✓			
Display		✓	✓	4 lines monochrome LCD with backlight. Operation and alarm status indication.
Internal modem		✓		SMS alarm information to mobile phone.
Relay output	4 pcs, 1 for each sensor and 1 for faults	2 pcs fully configurable	2 pcs fully configurable	
Sensor input	1-3 any different idOil sensors	1-3 any idOil sensors combination	1-3 any idOil sensors combination	
One push button quick commissioning	✓	✓	✓	
Automatic sensor type detection	✓	✓	✓	Detects automatically connected sensors and sensor types.
Polarity free sensor connection	✓	✓	✓	2 sensor wires can be connected both ways.
WLAN		✓	✓	Web browser based user interface for settings and configuration. WLAN connection locally with laptop/tablet/smartphone.
Data logging		✓	✓	Downloadable log file with time stamp for alarm, alarm reset, power break and maintenance events.
Service and maintenance diary		✓	✓	Free text input for diary marking.
Alarm repeat 24 h setting	✓	✓	✓	Alarm repeats after reset in 24 h if reason not removed.
Adjustable alarm delay		✓	✓	Delay adjustable for each sensor.
Ex classification	✓	✓	✓	Ⓔ II (1) G [Ex ia Ga] IIB ATEX, IECEx, UKEX

Alarm devices for oil separators



OMS-1 alarm device for oil separators

OMS-1 oil separator alarm

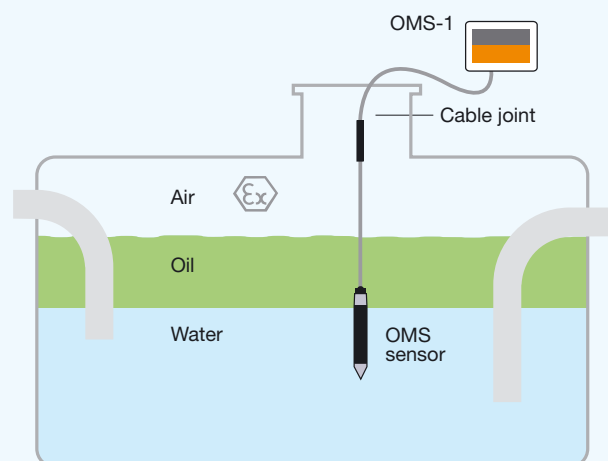
OMS-1 alarm device is specially designed for oil separators.

It indicates when it is time to empty the oil separator, which prevents harmful hydrocarbon emissions from being released into the sewer system.

*OMS-1
control unit
and OMS
sensor*



Application



Alarm devices for grease separators

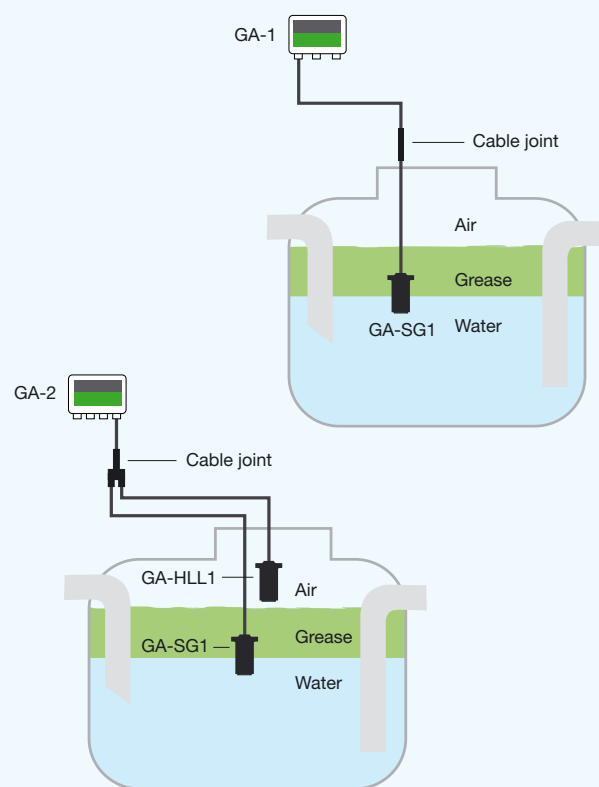


GA-1/GA-2 alarm devices for grease separators

GA-1 and GA-2 grease separator alarms

GA-1 and GA-2 alarm devices are specially designed for grease separators. They indicate when it is time to empty the grease separator, which prevents harmful grease emissions from being released into the sewer system.

Application



GA-1/GA-2 devices are not ATEX approved and cannot be used in oil separators.



GA-1 control unit and GA-SG1 sensor

GA-2 control unit and GA-HLL1/GA-SG1 sensors





Measures for a better tomorrow

Labkotec is a market-leading measurement equipment manufacturer, and related services provider. Our mission is to provide sustainable measurement solutions which enhance our customers business and help them to protect the environment and people.

Labkotec's comprehensive export product range comprises ice detection systems, alarm devices for oil and grease separators, a wide range of level switches and measurements as well as LabkoNet system for remote on-site monitoring of measurement and alarm information.

Sustainable competence

We are committed to sustainable business and for us, sustainability is a driving force for developing our business to create long-term value and sustainable growth.

We provide sustainable measurement solutions which help our customers not only to protect the environment and people, but also to save energy, water, materials and CO₂ emissions. We work systematically through continuous improvements and the efficient use of materials and resources to minimize the emissions and waste.

In our own operations, sustainability is built around three key elements: people, environment and sustainable growth.



Measures for a better tomorrow



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