ASA – Alarm unit for separators

The new generation of alarm units for separators.

Next Level



AFRISO

ALARM UNITS FOR SEPARATORS

Comprehensive and reliable monitoring of **separator systems**.

Benefits

- Reliable notifications in case of layer thickness, maximum level, sand and oil-on-water alarms
- Available with LC display or status LED as indicator for each probe
- Integrated audible alarm, can be acknowledged
- With Ex approval for use in zone 0
- Free choice of power supply: Mains voltage, battery operation or self-powered via a solar cell
- Easy installation thanks to digital measuring sensors and on/off sensors with any polarity
- Remote monitoring with ASA-01: Built-in IoT Gateway for communication with AFRISO Cloud for separators

Oil, grease and petrol pose a great hazard to groundwater and waste water. ASA alarm units monitor various parameters of separator systems and generate alarms before pollutants can reach the sewage system. Depending on the application, the following versions are available:



	ASA-01	ASA-02	ASA-03	ASA-04	ASA-05
LC display	✓	–	✓	–	–
Status LEDs	–	✓	–	✓	✓
AC 230 V	✓	✓	✓	–	–
DC 12 V	–	–	–	✓	–
Battery	–	–	–	–	✓
IoT/Cloud	✓	–	–	–	–
Layer thickness probe with measuring function	✓	–	–	–	–
Layer thickness probe	–	✓	✓	✓	✓
Overflow probe	✓	✓	✓	✓	✓
Sludge probe **with measuring function**	✓	–	–	–	–
Sludge probe	–	✓	✓	✓	✓

AFRISO Cloud

Real-time monitoring and remote management 24/7

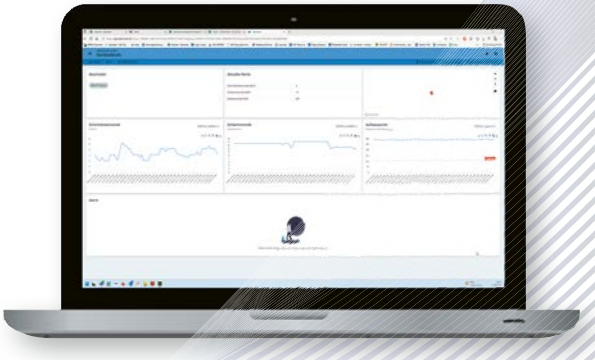
AFRISO Cloud – a complete cloud service from AFRISO which enables real-time access to status, function, alert and remote management of the product.

AFRISO Cloud

The ASA alarm unit features an integrated, state-of-the-art IoT gateway, which transmits all data to the AFRISO Cloud for separators for storage and further processing.
This allows you to monitor your separator system remotely – conveniently, easily and cost-effectively. Remote monitoring offers significant savings and efficient operation.

afri.so/cloud

CLOUD



ASA-01

Ex-certified grease and oil separator alarm unit with built-in IoT gateway

ASA-01 is a pioneering solution for monitoring grease and oil separators in explosive environments. The control unit offers a sophisticated electronics unit compatible with up to three digital ASA measuring probes, providing comprehensive and reliable separator monitoring.

Features and Benefits

NEW Layer thickness probe with measuring function (ASA-MLP):

- Capacitance layer thickness probe with deep electrode to accurately measure the thickness of the oil/grease layer.
- Offers not only detection but also accurate measurement of layer thickness to optimize service times.
- Provides full control of the separator and reduces the risk of overfilling or inefficient servicing.

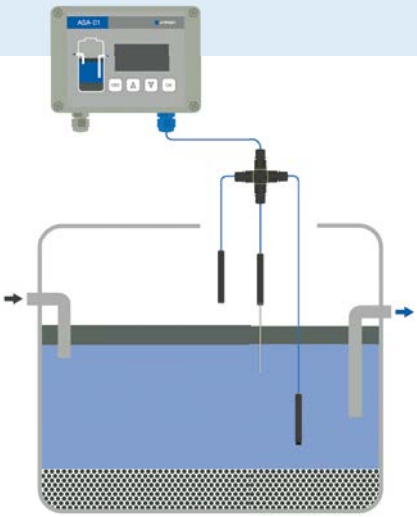
Overflow probe (ASA-OP):

- Capacitance probe that detects a rising liquid level in the separator.
- Triggers an alarm when the level rises above the preset level, indicating potential blockages in the outlet or the filter.
- Enables quick action to prevent damage and unwanted emissions from the separator.

NEW Sludge probe with measuring function (ASA-MSP):

- Ultrasonic probe that measures the level of sludge, sand and other solid materials in the separator.
- Provides detailed information on the amount of sludge for more efficient service planning and evacuation frequency.





Why choose ASA-01:

Built-in cloud service solution
The built-in IoT gateway has a connection to AFRISO Cloud for separators.

Preventive maintenance
By monitoring layer thickness, liquid level and sludge level, ASA-01 reduces the risk of overfilling, clogging and potential damage.

Efficiency and cost savings
Optimized servicing based on accurate measurements reduces downtime and unnecessary service efforts, leading to significant cost savings.

DG: H	Part no.
Alarm unit for separators ASA-01-1 with probe ASA-MLP	**53440**
Alarm unit for separators ASA-01-2 with probes ASA-MLP and ASA-OP	**53441**
Overflow probe ASA-OP	**53431**
Layer thickness probe ASA-MLP	**53434**
Sludge probe ASA-MSP	**53435**

ASA-02

Ex-certified alarm unit for grease and oil separators with status LEDs

ASA-02 is an advanced alarm unit for grease and oil separators, specially designed for use in hazardous areas. It consists of an electronic control unit that can be connected to up to three digital ASA probes.

Features and Benefits

230 V version with a symbolic representation of the separator and a status LED for each probe to provide quick visual feedback on the condition of the separator.

Layer thickness probe (ASA-LP):

- Provides a timely notification when the oil/grease layer in the separator needs to be removed to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the servicing requirement for efficient operation.

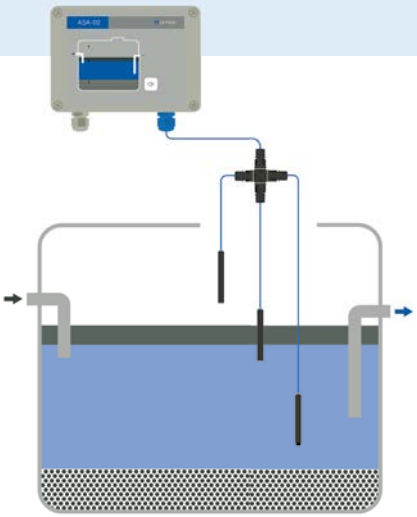
Overflow probe (ASA-OP):

- Capacitance probe that warns when the level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters. Enables quick action to prevent damage and leakage into the sewage system.

Sludge probe (ASA-SP):

- Ultrasonic level probe that triggers an alarm when the level of sludge, sand and other solid materials exceeds the preset level.
- Provides continuous monitoring of the sludge level to help prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.





Why choose ASA-02:

Efficiency and reliability
By detecting oil/grease layer, liquid level and sludge level, ASA-02 ensures effective servicing and reduces the risk of downtime and damage.

Safety for the environment
Early warning of potential problems reduces the risk of accidental releases and ensures compliance with environmental regulations and safety standards.

Status LED for each probe
For a quick visual feedback on the condition of the separator.

DG: H	Part no.
Alarm unit for separators ASA-02-1 with probe ASA-LP	**53423**
Alarm unit for separators ASA-02-2 with probes ASA-LP and ASA-OP	**53424**
Overflow probe ASA-OP	**53430**
Layer thickness probe ASA-LP	**53431**
Sludge probe ASA-SP	**53433**

ASA-03

Ex-certified alarm unit for grease and oil separators with LCD display

ASA-03 is an advanced alarm unit for grease and oil separators, specially designed for use in hazardous areas. It consists of an electronic control unit that can be connected to up to three digital ASA probes.

Features and Benefits

230-V version with display for the system state and alarm texts. It provides a quick overview of the condition of the separator and, thanks to intuitive navigation menus, makes it easy to operate.

Layer thickness probe (ASA-LP):

- Provides a timely notification when the oil/grease layer in the separator needs to be removed to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the servicing requirement for efficient operation.

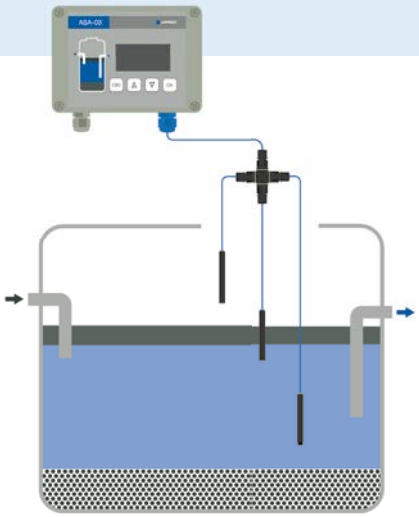
Overflow probe (ASA-OP):

- Capacitance probe that warns when the level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters. Enables quick action to prevent damage and leakage into the sewage system.

Sludge probe (ASA-SP):

- Ultrasonic level probe that triggers an alarm when the level of sludge, sand and other solid materials exceeds the preset level.
- Provides continuous monitoring of the sludge level to help prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.





Why choose ASA-03:

Efficiency and reliability
By detecting oil/grease layer, liquid level and sludge level, ASA-03 ensures effective servicing and reduces the risk of downtime and damage.

Safety for the environment
Early warning of potential problems reduces the risk of accidental releases and ensures compliance with environmental regulations and safety standards.

Display for clear overview
Display that shows system state, alarm texts and navigation menus, and provides quick visual feedback on the condition of the separator.

DG: H	Part no.
Alarm unit for separators ASA-03-1 with probe ASA-LP	**53442**
Alarm unit for separators ASA-03-2 with probes ASA-LP and ASA-OP	**53443**
Overflow probe ASA-OP	**53430**
Layer thickness probe ASA-LP	**53431**
Sludge probe ASA-SP	**53433**

ASA-04

Ex-certified alarm unit with 12 V operation for grease and oil separators

ASA-04 is an advanced alarm unit for grease and oil separators, specially designed for use in hazardous areas. It consists of an electronic control unit that can be connected to up to three digital ASA probes.

Features and Benefits

- Operated with 11.5 – 20 V DC which makes it suitable for solar cell power supply.
- Symbolic representation of the separator and a status LED for each probe to provide quick visual feedback on the condition of the separator.

Layer thickness probe (ASA-LP):

- Enables fast detection of the need to remove the oil/grease layer from the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the servicing requirement for efficient operation.

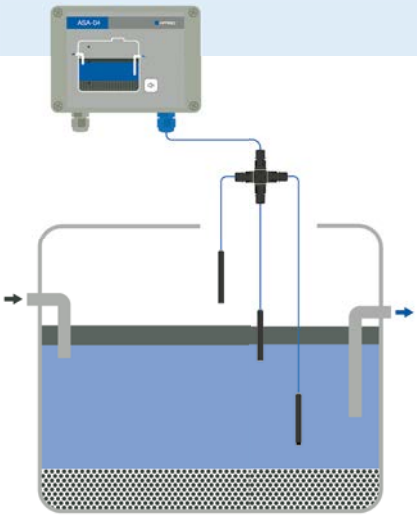
Overflow probe (ASA-OP):

- Capacitance probe that warns when the level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters. Enables quick action to prevent damage and leakage into the sewage system.

Sludge probe (ASA-SP):

- Ultrasonic level probe that triggers an alarm when the level of sludge, sand and other solid materials exceeds the preset level.
- Provides continuous monitoring of the sludge level to help prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.





Why choose ASA-04:

Efficiency and reliability
By detecting oil/grease layer, liquid level and sludge level, ASA-04 ensures effective servicing and reduces the risk of downtime and damage.

Safety for the environment
Early warning of potential problems reduces the risk of accidental releases and ensures compliance with environmental regulations and safety standards.

Status LED for each probe
For a quick visual feedback on the condition of the separator.

Operating voltage DC 12 V
Ideal for self-powered operation using solar cells.

DG: H	Part no.
Alarm unit for separators ASA-04-1 with probe ASA-LP	**53444**
Alarm unit for separators ASA-04-2 with probes ASA-LP and ASA-OP	**53445**
Overflow probe ASA-OP	**53430**
Layer thickness probe ASA-LP	**53431**
Sludge probe ASA-SP	**53433**

ASA-05

Ex-certified, battery-operated alarm unit for grease and oil separators

ASA-05 is an advanced alarm unit for grease and oil separators, specially designed for use in hazardous areas. It consists of an electronic control unit that can be connected to up to three digital ASA probes.

Features and Benefits

- Battery-powered for operation in areas without mains voltage.
- Symbolic representation of the separator with status LED for each probe, which provides quick visual feedback on the state of the separator.

Layer thickness probe (ASA-LP):

- Enables fast detection of the need to remove the oil/grease layer from the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the servicing requirement for efficient operation.

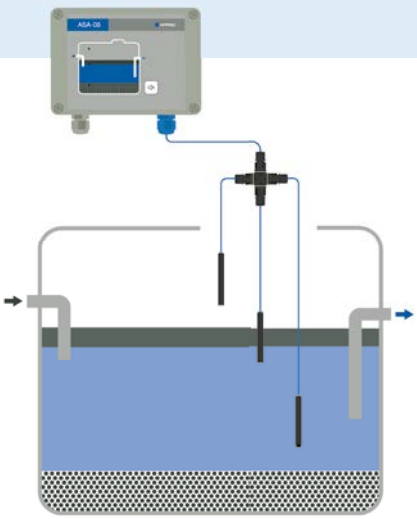
Overflow probe (ASA-OP):

- Capacitance probe that warns when the level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters. Enables quick action to prevent damage and leakage into the sewage system.

Sludge probe (ASA-SP):

- Ultrasonic level probe that triggers an alarm when the level of sludge, sand and other solid materials exceeds the preset level.
- Provides continuous monitoring of the sludge level to help prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.





Why choose ASA-05:

Efficiency and reliability
By detecting oil/grease layer, liquid level and sludge level, ASA-04 ensures effective servicing and reduces the risk of downtime and damage.

Safety for the environment
Early warning of potential problems reduces the risk of accidental releases and ensures compliance with environmental regulations and safety standards.

Status LED for each probe
For a quick visual feedback on the condition of the separator.

Battery-powered
For operation in areas without mains voltage.
Batteries: 4 x lithium 1.5 V AA.

DG: H	Part no.
Alarm unit for separators ASA-05-1 with probe ASA-LP	**53446**
Alarm unit for separators ASA-05-2 with probes ASA-LP and ASA-OP	**53447**
Overflow probe ASA-OP	**53430**
Layer thickness probe ASA-LP	**53431**
Sludge probe ASA-SP	**53433**

AFRISO – more than 150 years of expert knowledge

The company

AFRISO, founded by Adelbert Fritz in Schmiedefeld, Germany in 1869, is an innovative, medium-sized company with a total staff of over 1,200 worldwide, over 600 of which are employed at the four German sites.



Headquarters in Güglingen (Germany)



AFRISO training centre



AFRISO logistics and service centre





Traditionally, we manufacture measuring and control devices for temperature and pressure. For more than 50 years now, we have also been manufacturing measuring, control and monitoring devices and systems for environmental protection:

- Level indicators
- Overfill prevention systems
- Leak detectors
- Fittings for heating systems
- Flue gas analysers

Our leading-edge, market-oriented products and innovations result from our comprehensive know-how, a highly motivated and qualified staff and the fact that we understand what the market needs.

Our portfolio covers everything from a comprehensive range of standardised, proven off-the-shelf products all the way to high-grade customised solutions.

- Research and development
- Tools and equipment making
- Highly versatile and rational production
- Highest quality levels
- National and international approvals

AFRISO stands for leading-edge brand products to meet your requirements.

Environmental management as per ISO 14001 is a matter of course for AFRISO.



For detailed information on our product range, find our online catalogue at www.afriso.com

We ensure that you get professional, personal service. You can reach your contact person on: www.afriso.com/contact

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