

Next Level



ASA – Afriso Separator Alarm
A new generation of separator
alarms from Afriso

Take things to the Next Level with Afriso

- **Power options:** Mains voltage, solar cell or battery
- **Display options:** LCD or LED versions
- **Remote monitoring:** Built-in IoT Gateway for communication with Afriso Cloud
- **Easy installation:** Digital, polarity-free measuring and on/off sensors

Overview

					
	ASA-01	ASA-02	ASA-03	ASA-04	ASA-05
LCD	✓	-	✓	-	-
LED	-	✓	-	✓	✓
230 VAC	✓	✓	✓	-	-
12 VDC	-	-	-	✓	-
Battery	-	-	-	-	✓
IoT/Cloud	✓	-	-	-	-
Measuring Layer Sensor	✓	-	-	-	-
Layer Sensor	-	✓	✓	✓	✓
High Level Sensor	✓	✓	✓	✓	✓
Measuring Sludge Sensor	✓	-	-	-	-
Sludge sensor	-	✓	✓	✓	✓

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.

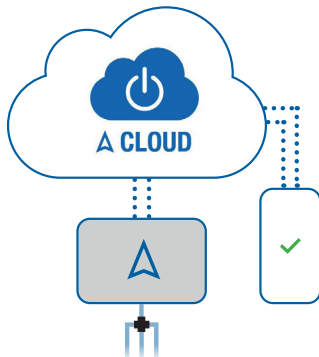
Afriso Cloud

Data from our IoT-gateway Afriso Cloud Connect is stored and processed in our cloud service Afriso Cloud.

Monitor your separator remotely. It's simple and cost-effective – logistics at a distance saves money quickly.

Afriso Cloud Connect

Afriso Cloud Connect is standard in ASA-01.





ASA-01

EX-rated grease and oil separator alarm with built-in IoT gateway

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

Features and Benefits

NEW Measuring Layer Sensor (ASA-MLP):

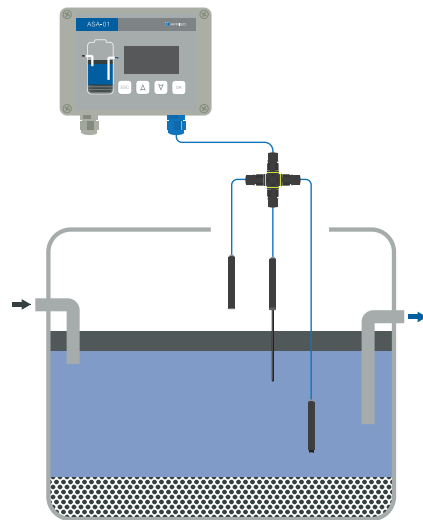
- Capacitive layer sensor with measuring rod to accurately measure the thickness of the oil/grease layer.
- Offers not only detection but also accurate measurement of layer thickness to optimize emptying times.
- Provides full control of the separator and reduces the risk of overfilling or inefficient emptying.

High Level Sensor (ASA-HLP):

- Ultrasonic sensor that detects a rising liquid level in the separator.
- Provides warning when fluid level rises above preset level, indicating potential blockages in outlet or filter.
- Enables quick action to prevent damage and unwanted emissions.

NEW Measuring Sludge Sensor (ASA-MSP):

- Ultrasonic sensor 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 maintenance planning and emptying frequency.



Why choose ASA-01:

Built-in cloud service solution: The built-in IoT gateway has a connection to Afriso Cloud, which is our cloud service solution for remote presentation.

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

Efficiency and Cost Savings: Optimized emptying based on accurate measurements reduces downtime and unnecessary service efforts, leading to significant cost savings.

Powered by 230 V, and has 3 programmable relay outputs.





ASA-02

EX-rated grease and oil separator alarm with **status LEDs**

The ASA-02 is an advanced grease and oil separator alarm, specially designed for use in environments with a risk of explosion. It consists of an electronic unit that can be connected to up to three digital ASA sensors.

Features and Benefits

230 V version with an overview image of a separator with status LED for each sensor, which provides quick visual feedback on the state of the separator.

Layer sensor (ASA-LP):

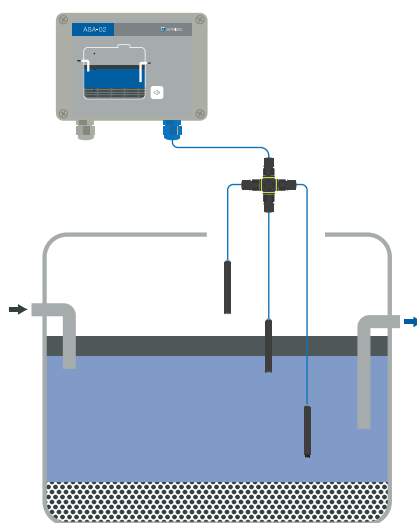
- Enables fast detection of the need to empty the oil/grease layer of the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the emptying requirement for efficient operation.

High Level Sensor (ASA-HLP):

- Ultrasonic sensor that warns when the liquid level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters, enabling quick action to prevent damage and spills.

Sludge sensor (ASA-SP):

- Ultrasonic level sensor that alarms when the level of sludge, sand and other solid materials exceeds the predetermined level.
- Provides continuous monitoring of the sludge level to 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, the ASA-02 alarms ensure effective maintenance and reduce the risk of downtime and damage.

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

Status LED for each sensor, which provides quick visual feedback on the state of the separator.

Powered by 230 V, and has 3 programmable relay outputs.





ASA-03

EX-rated grease and oil separator alarm with LCD display

The ASA-03 is an advanced grease and oil separator alarm, specially designed for use in environments with a risk of explosion. It consists of an electronic unit that can be connected to up to three digital ASA sensors.

Features and Benefits

230 V version with display that shows system status, alarm texts and navigation menus, which provides quick visual feedback on the condition of the separator.

Layer sensor (ASA-LP):

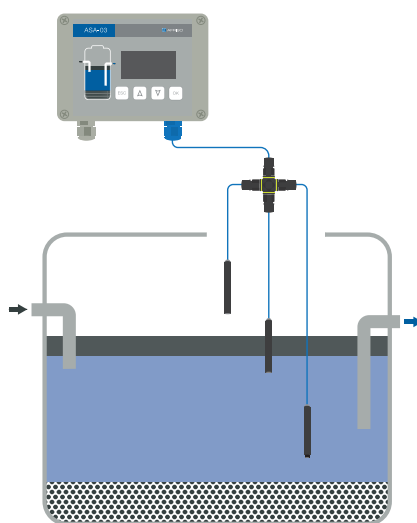
- Enables fast detection of the need to empty the oil/grease layer of the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the emptying requirement for efficient operation.

High Level Sensor (ASA-HLP):

- Ultrasonic sensor that warns when the liquid level in the separator rises above a preset level above the outlet pipe
- Provides early warning of potential clogging in outlet or filters, enabling quick action to prevent damage and spills.

Sludge sensor (ASA-SP):

- Ultrasonic level sensor that alarms when the level of sludge, sand and other solid materials exceeds the predetermined level.
- Provides continuous monitoring of the sludge level to 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, the ASA-03 alarms ensure effective maintenance and reduce the risk of downtime and damage.

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

Display that shows system status, alarm texts and navigation menus, which provides quick visual feedback on the condition of the separator.

Powered by 230 V, and has 3 programmable relay outputs.



ASA-04

EX-rated grease and oil separator alarm for 12 VDC operation

The ASA-04 is an advanced grease and oil separator alarm, specially designed for use in environments with a risk of explosion. It consists of an electronic unit that can be connected to up to three digital ASA sensors.

Features and Benefits:

- Operating voltage between 11.5 and 20 VDC, which makes it suitable for, for example, solar cell power supply.
- Overview image of a separator with status LED for each sensor, which provides quick visual feedback on the state of the separator.

Layer sensor (ASA-LP):

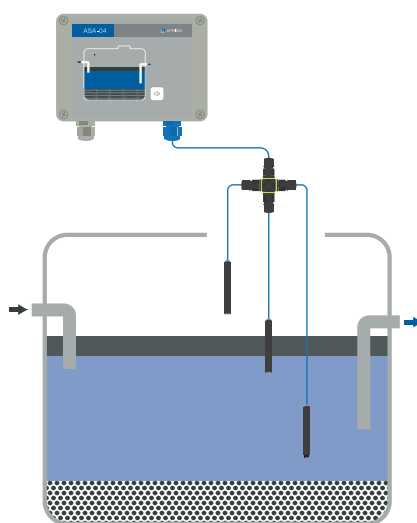
- Enables fast detection of the need to empty the oil/grease layer of the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the emptying requirement for efficient operation.

High Level Sensor (ASA-HLP):

- Ultrasonic sensor that warns when the liquid level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters, enabling quick action to prevent damage and spills.

Sludge sensor (ASA-SP):

- Ultrasonic level sensor that alarms when the level of sludge, sand and other solid materials exceeds the predetermined level.
- Provides continuous monitoring of the sludge level to prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.



Why choose ASA-04:

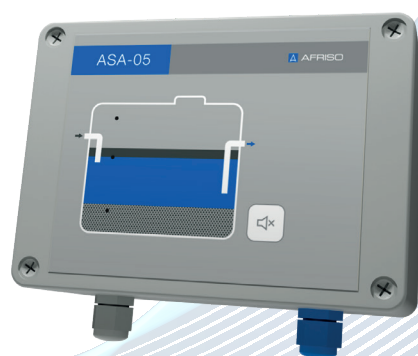
Efficiency and Reliability: By detecting oil/grease layer, liquid level and sludge level, the ASA-04 alarms ensure effective maintenance and reduce the risk of downtime and damage.

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

Status LED for each sensor, which provides quick visual feedback on the state of the separator.

Operated with 12 VDC which makes it suitable for solar cell power supply.
3 programmable relay outputs.





ASA-05

EX-rated grease and oil separator alarm with battery operation

The ASA-05 is an advanced grease and oil separator alarm, specially designed for use in environments with a risk of explosion. It consists of an electronic unit that can be connected to up to three digital ASA sensors.

Features and Benefits

- Battery operation, which makes it suitable for installation in places without mains power.
- Overview image of a separator with status LED for each sensor, which provides visual feedback on the state of the separator.

Layer sensor (ASA-LP):

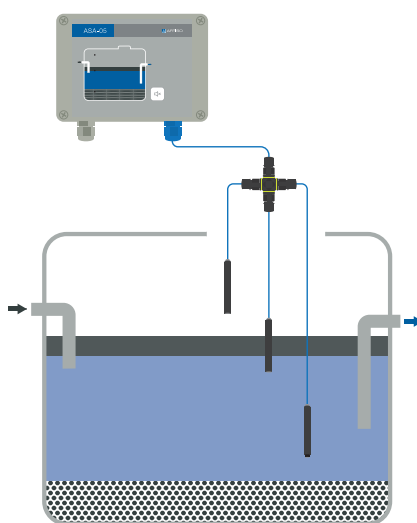
- Enables detection of the need to empty the oil/grease layer of the separator to reduce the risk of overfilling and downtime.
- Gives the user control over the separator and optimizes the emptying requirement for efficient operation.

High Level Sensor (ASA-HLP):

- Ultrasonic sensor that warns when the liquid level in the separator rises above a preset level above the outlet pipe.
- Provides early warning of potential clogging in outlet or filters, enabling quick action to prevent damage and spills.

Sludge sensor (ASA-SP):

- Ultrasonic level sensor that alarms when the level of sludge, sand and other solid materials exceeds the predetermined level.
- Provides continuous monitoring of the sludge level to prevent deterioration of the separator's capacity and reduce the risk of operational disruptions.



Why choose ASA-05:

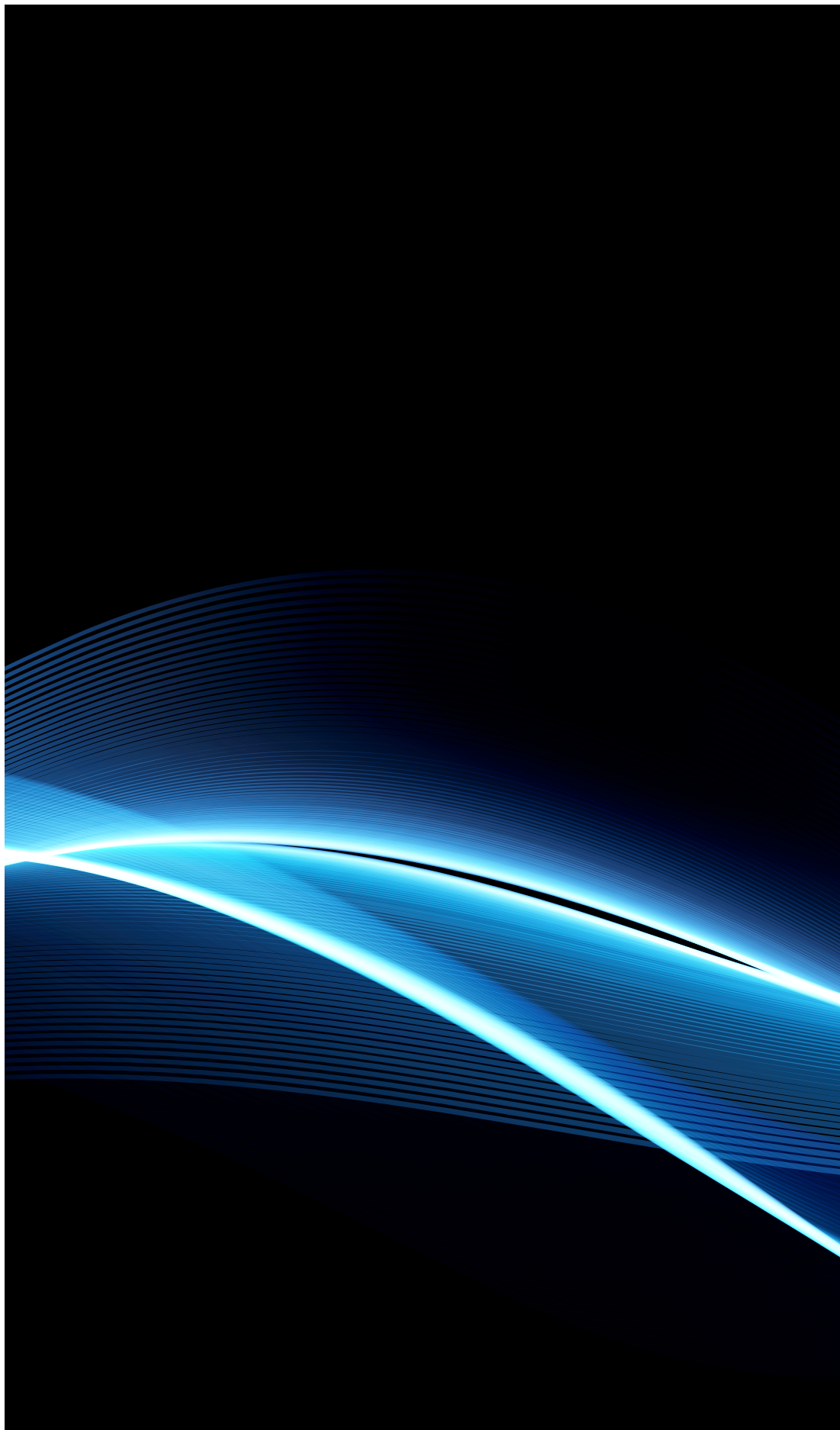
Efficiency and Reliability: By detecting oil/grease layer, liquid level and sludge level, the ASA-05 alarms ensure effective maintenance and reduce the risk of downtime and damage.

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

Status LED for each sensor, which provides visual feedback on the state of the separator.

Operated with battery which makes it suitable for places without mains voltage.
3 programmable relay outputs.





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