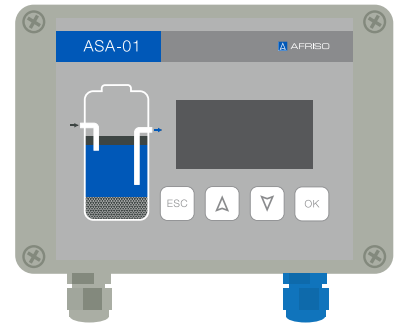# ASA-01

Separator alarm

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:

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 quickly 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.

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.

Built-in cloud service solution:

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

Why choose ASA-01:

Safety and Preventive Maintenance: By monitoring layer, liquid level and sludge level, the ASA-01 reduces the risk of overfilling, clogging and potential damage.
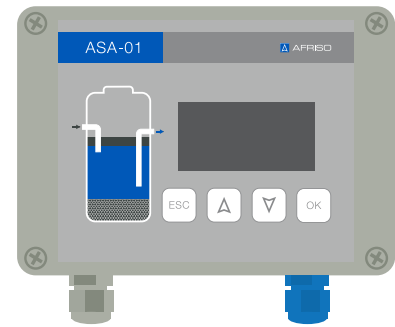
Efficiency and Cost Savings: Optimized emptying based on accurate measurements reduces downtime and unnecessary service efforts, leading to significant cost savings.

Technology for Environmental Protection
Measuring. Controlling. Monitoring.

ASA-01

Separator alarm

Technical specifications:

Housing:	175 x 125 x 75 mm (W x H x D), 0.75 kg, ABS plastic, IP 65 Front panel with integrated touch buttons and backlit LCD display
Cable connections:	2 cable glands and 3 knock-outs. (7–10 mm)
Voltage supply:	AC 230 V
Relay outputs:	3 programmable, AC 250V / 5A / 100VA
Ambient temperature:	-20°C - +60°C
Alarm:	Text via LCD display and acoustic alarm
IoT Gateway:	LTE CAT M1 IoT Gateway with connection to AfrisoCloud Note! The IoT gateway need 4G network to function
Ex certificate: :	DNV 23 ATEX 86944X ⟨Ex⟩ II (I) G [Ex ia Ga] IIA

Accessories:

Measuring layer sensor ASA-MLP

Enclosure:	150 mm, Ø30 mm (measuring rod 400 mm), PEHD plastic, IP68
Sensor cable:	5 m oil-resistant, 2 x 0.75 mm^2
Liquid temperature:	-20°C - + 40°C
Ex certificate:	DNV 23 ATEX 86944X ⟨Ex⟩ II 1 G Ex ia IIA T4 Ga

High level sensor ASA-HLP

Enclosure:	150 mm, Ø30 mm, PEHD plastic, IP68
Sensor cable:	5 m oil-resistant, 2 x 0.75 mm^2
Liquid temperature:	-20°C - + 40°C
Ex certificate:	DNV 23 ATEX 86944X ⟨Ex⟩ II 1 G Ex ia IIA T4 Ga

Measuring sludge sensor ASA-MSP

Enclosure:	150 mm, Ø30 mm, PEHD plast, IP68
Sensor cable:	5 m oil-resistant, 2 x 0.75 mm^2
Liquid temperature:	-20°C - + 40°C
Ex certificate:	DNV 23 ATEX 86944X ⟨Ex⟩ II 1 G Ex ia IIA T4 Ga