








































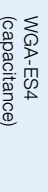



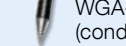


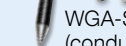

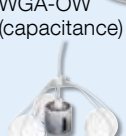


# WATCHDOG-LINE alarm units – Safety for industry and domestic technology



Alarm unit	Probe	Media	Application
 <p><b>Water alarm unit WWG</b></p> 	<p>Wall mounting rail probe WSS</p>  <p>or</p>  <p>Floor water probe <b>BWS 10-1</b></p>	<ul style="list-style-type: none"> <li>Water</li> <li>Conductive water mixtures</li> <li>Electrically conductive liquids</li> <li>Emulsions</li> </ul>	<p><b>Single-channel</b> Suitable for water, but also for electrically conductive liquids, emulsions and conductive water mixtures.</p> <p><b>EnOcean®-ready</b></p>
 <p><b>Oil/water alarm unit ÖWU</b></p> 	<p>Wall mounting rail combination probe</p> 	<ul style="list-style-type: none"> <li>Oil + water</li> </ul>	<p><b>Single-channel</b> ÖWU distinguishes oil alarms and water alarms and indicates the appropriate alarm condition.</p> <p><b>EnOcean®-ready</b></p>
 <p><b>Oil/water alarm unit ÖWWG 3</b></p> 	<p>PTC thermistor probe</p> 	<ul style="list-style-type: none"> <li>Electrically conductive and non-conductive liquids</li> </ul>	<p><b>Single-channel</b> ÖWWG 3 generates alarms in the event of accumulations of liquids caused by tank leaks, backflow, flooding, etc.</p> <p><b>EnOcean®-ready</b></p> <p><b>Certificate:</b> DIBt: Z-65.40-339</p>
 <p><b>Oil-on-water detector ÖAWD-8</b></p> 	<p>Floating probe SWS</p> 	<ul style="list-style-type: none"> <li>Oil on water</li> </ul>	<p><b>Single-channel</b> ÖAWD monitors standing water and calmly flowing bodies of water/water surfaces for pollution by oil.</p>
 <p><b>Oil/water alarm unit OM 5*</b></p> 	<p>Photoelectric probe</p> 	<ul style="list-style-type: none"> <li>Oil</li> <li>Water</li> </ul>	<p><b>5 channels</b> For collection facilities below oil consuming equipment, pipe and cable ducts, pumps and control stations and tanks.</p> <p><b>Certificate:</b> DIBt: Z-65.40-214</p>
 <p><b>Digital tank contents indicator DTA 10/DTA 20 E</b></p> 	<p>Pneumatic measuring line</p> 	<ul style="list-style-type: none"> <li>Fuel oil</li> <li>Diesel fuel</li> <li>Water</li> <li>Non-corrosive media (density 0.5 to 1.5 g/cm<sup>3</sup>)</li> </ul>	<p><b>Single-channel</b> For manual level measurement and signalling of a minimum level during measurements – battery-operated.</p> <p><b>DTA 20 E EnOcean® inside</b></p>
 <p><b>Level indicator TankControl 10</b></p> 	<p>Submersible probe</p>  <p>or</p> <p>Magnetic float switch</p> 	<ul style="list-style-type: none"> <li>Fuel oil EL, L</li> <li>Diesel fuel</li> <li>Biodiesel</li> <li>Water</li> </ul>	<p><b>1 channel/2 channels</b> For continuous level measurement and alarms in the event of minimum or maximum levels, level differences, backwater and level control.</p>
 <p><b>Level switches Minimelder / Maximelder</b></p> 	<p>Magnetic float switch</p> 	<ul style="list-style-type: none"> <li>Water</li> <li>Fuel oil EL, L, M</li> <li>Oil/water mixtures</li> <li>Neutral liquids</li> </ul>	<p><b>Single-channel</b> Suitable to signal minimum or maximum levels in tanks containing liquids.</p> <p><b>EnOcean®-ready</b></p>

\* Use as leak detection system class III as per EN 13160-1/-4.

Alarm unit	Probe	Media	Application
 <b>Backup controller RENA</b>	 Level probe	<ul style="list-style-type: none"> <li>▪ Rainwater</li> </ul>	<b>Single-channel</b> Controls backup supply of mains water if the rainwater level is low.
  <b>WaterSensor con</b>  <b>WaterSensor eco</b> Battery-less  <b>Water sensor BWS</b>		<ul style="list-style-type: none"> <li>▪ Water</li> <li>▪ Rainwater</li> </ul>	<b>Multi-channel</b> For manually or remotely controlled closing and opening of a water pipe in the case of a leak. Teach-in of up to 40 sensors. <b>EnOcean®-inside</b>
 <b>Overfill prevention system UFS 01 according to WHG</b>	 Level probe Type 76 A	<ul style="list-style-type: none"> <li>▪ Water-polluting liquids (flash point &gt; 55 °C)</li> </ul>	<b>Single-channel</b> Signals when the maximum level in stationary tanks is reached. <b>Certificate:</b> DIBt: Z-65.11-193, Z-65.11-185
 <b>Leak detector LAG as per German WHG and BetrSichV</b>	 Leak detection fluid container with probe	<ul style="list-style-type: none"> <li>▪ Water-polluting liquids</li> </ul>	<b>Single-channel</b> Leak detector for double-walled tanks with liquid in the interstitial space. <b>Approval:</b> CE marking as per EU Construction Products Regulation 305/2011, EU 574/2014, EN 13160-1,-3 and ÜHP
 <b>Gas detector GM 2.1</b>	 Gas sensor GS 4.1	<ul style="list-style-type: none"> <li>▪ Explosive gases</li> <li>▪ Vapours</li> </ul>	<b>2 channels</b> Suitable for monitoring rooms, buildings and public facilities.
 <b>Alarm unit for low gas level</b>	 Pressure gauges with electrical contacts	<ul style="list-style-type: none"> <li>▪ Gases</li> </ul>	<b>Single-channel</b> Alarm unit for low gas level for monitoring the pressure in gas-filled containers.
 <b>Alarm units WGA for separators</b>	WGA-ES8 (ultrasound, only for WGA 01 D)  WGA-ES4 (capacitance)  PTC thermistor probe WGA-R6	<ul style="list-style-type: none"> <li>▪ Oil</li> <li>▪ Petrol</li> <li>▪ Grease</li> <li>▪ (Sludge, sand)</li> </ul>	<b>Devices with 1 channel / 2 channels / 3 channels</b> Monitor, for example, the layer thickness and the maximum level of separated liquid in oil, petrol and grease separators.
 <b>Alarm unit WGA 02/03 for separators</b>	 WGA-AS (capacitance)  WGA-SD 02 (conductivity)	<ul style="list-style-type: none"> <li>▪ Oil</li> <li>▪ Petrol</li> <li>▪ Grease</li> </ul>	<b>Single-channel WGA 02 / dual-channel WGA 03</b> Monitors the layer thickness and the maximum level (WGA 03) of separated liquid in oil, petrol and grease separators.
 <b>Alarm unit WGA 05 for separators</b>	 WGA-SN (ultrasound)  WGA-SD 02 (conductivity)	<ul style="list-style-type: none"> <li>▪ Oil</li> <li>▪ Petrol</li> <li>▪ Grease</li> <li>▪ (Sludge, sand)</li> </ul>	<b>2 channels</b> Monitors sand or sludge accumulations in oil, petrol and grease separators as well as the layer thickness of the separated liquid.
 <b>Alarm unit WGA 06 for separators</b>	WGA-ÖW (capacitance)  WGA-AS (capacitance)	<ul style="list-style-type: none"> <li>▪ Oil</li> <li>▪ Petrol</li> <li>▪ Grease</li> </ul>	<b>Single-channel</b> Monitors pump pits and inspection ducts in separator systems for accumulations of oil (oil on water) and for the maximum permissible level.

**i** The WATCHDOG alarm units will successively be EnOcean®-enabled so that an EnOcean® wireless module can be retrofitted. Whether or not an alarm unit already features this technology is indicated by the labels „EnOcean-ready“ or „EnOcean-inside“ on the nameplate..

# WATCHDOG-LINE & AFRISO SMART HOME

Alarm units for fast detection of levels, accumulations of liquids, leakage, gases or smoke.

## WATCHDOG-LINE Alarm Units – Making Heating Systems Safe

- 1 Oil/water alarm unit OM 5
- 2 Photoelectric probe for tank room monitoring
- 3 Photoelectric probe with drip pan
- 4 Wireless smoke alarm ASD 10
- 5 Digital tank contents indicator DTA 20 E with integrated EnOcean® wireless module for integration into smart home systems.
- 6 AFRISOhome Gateway HG 02 for communication with WATCHDOG-LINE alarm units and numerous other products of the EnOcean®, Zigbee and Z-Wave Alliances as well as WLAN-enabled devices.
- 7 Radio-controlled water valve WaterControl 01.1 for immediate shutting off of the water pipe in the case of a leak.



The EnOcean® wireless technology allows you to easily integrate WATCHDOG-Line alarm units into smart home systems and operate them via mobile devices.

AFRISOhome



## Typical application areas

- Collection facilities below oil and water consuming equipment
- Drip pans below storage tanks, burners or motors in buildings or outdoors
- Containers, barrels and tanks/double-walled tanks
- Cisterns and water storage tanks
- Drinking water installations
- Sewage tanks
- Oil depots, boiler rooms and rooms with mains water connection
- Heating systems
- Canal shafts, manholes and inspection ducts
- Cable and pipe ducts
- Cellars, kitchens, laundry rooms
- Warehouses and storage areas
- Machinery rooms
- Museums, archives, office buildings
- Lift shafts
- High-tech equipment rooms and server rooms
- Pumping stations and control rooms
- Catchment and overflow basins
- Oil, petrol and grease separators
- Flood hazard areas
- Protective pipes and pipelines

In the building technology sector, there are many risks which should be monitored to avoid annoyance to home owners, janitors, property managers or maintenance personnel and to avert extensive damage. WATCHDOG-LINE alarm units report

undesirable events, danger and emergency conditions early so that immediate measures can be taken. The WATCHDOG-LINE devices excel with easy and intuitive operation. A large variety of probes and sensors enable fast detection of liquid levels, leaka-

ge and accumulations of liquids, gases or smoke. Integrated visual and audible alarms provide the appropriate signals in hazard conditions. For remote signalling and easy integration into AFRISO smart home systems, the devices are ready for the installa-

Oil/water alarm unit ÖWWG 3 for monitoring lift shafts for hydraulic oil or groundwater.



WATCHDOG-LINE for monitoring of warehouses, machinery rooms, storage facilities for hazardous substances, etc.



## Detectable media

- Water
- Waste water
- Groundwater
- Heating circuit water
- Cooling water
- Rainwater
- Fuel oil EL, L, M
- Diesel fuels or low-viscosity lubricating oils
- Motor oils, gearbox oils and hydraulic oils
- Vegetable oils and transformer oils
- Beverages
- Antifreeze agents and fertilisers
- Emulsions
- Sludge, sand
- Oil, petrol and grease layers
- Conductive water mixtures and liquids
- Gases, vapour, smoke
- Many other liquids with a flash point of > 55 °C

tion of an EnOcean® wireless module. In addition, event reporting systems are available for industrial applications. This way, the persons in charge can be notified of an alarm condition – whether or not they have

a mobile device. Residential buildings, factories and facilities are protected and monitored. From standard wall mounting to integration into control cabinets using mounting frames – WATCHDOG-LINE alarm units are easy and

quick to install. With very little effort, the devices can also be retrofitted with seal kits for use in rough dirty and wet environments (IP 54).



WATCHDOG-LINE with integrated visual and audible alarms, Acknowledge button and relay output

Probes and sensors for a great variety of applications

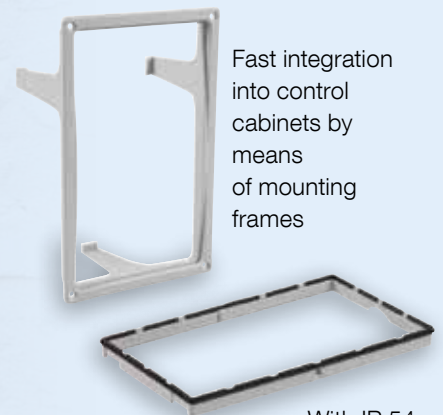
## Advantages – your benefits

- + Universal application – a suitable device for each application
- + Advanced, consistent design
- + Audible and visual alarms for maximum safety
- + Audible alarm with Acknowledge facility
- + Additional signalling devices (EMS, ZAG, horn, warning light) can be connected
- + Easy integration into smart home systems via EnOcean® wireless module
- + Ready-to-connect device for easy installation and commissioning
- + Fast integration into control cabinets by means of mounting frames
- + DIN rail clip for fast and easy mounting
- + IP 54 sealing kit for rough application conditions
- + High reliability and long service life
- + Outstanding price/performance ratio



Modern housing design,  
in line with other AFRISO  
monitoring devices

Control panel with  
visual and audible alarms  
and Acknowledge button



Fast integration  
into control  
cabinets by  
means  
of mounting  
frames

With IP 54  
sealing kit for rough  
application conditions



DIN rail clip for fast  
and easy mounting

Supply voltage

Connection probe

Relay output for  
connection of additional  
signalling devices

Easy, fast  
wall mounting

## Event reporting systems EMS

If used together with the AFRISO event reporting system EMS, the alarm units immediately transmit a text message to signal events such as low level or error messages, tank contents data, error conditions or accidents – globally and 24/7. In connection with the AFRISO Net web service or a central control system, data can also be visualised, logged and managed. Depending on the system configuration, the AFRISO event reporting systems allow for full remote control of complete residential installations and technical facilities..



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 1,100 worldwide, over 550 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](http://www.afriso.com)



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



Technology for Environmental Protection  
Measuring. Controlling. Monitoring.



**AFRISO**