












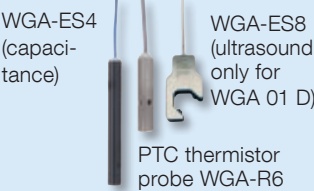









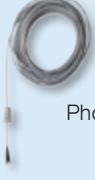









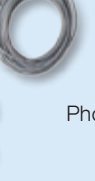








WATCHDOG alarm units

Safety for industry and domestic technology



Alarm unit	Probe	EnOcean®	Media	Application
 Water valve WaterControl 01	 Conductivity water sensor WaterSensor con or battery-less mechanical water sensor WaterSensor eco	EnOcean-inside	<ul style="list-style-type: none"> Water Rainwater 	Multi-channel For manually or remotely controlled closing and opening of a water pipe in the case of a leak. Multiple sensors can be used.
 Overfill prevention system UFS 01 (WHG/VAwS)	 Level probe UFS 01	Coming soon	<ul style="list-style-type: none"> Flammable liquids Non-flammable, water-polluting liquids 	Single-channel Signals when the maximum level in stationary tanks is reached. Technical Approval of the German Institute for Civil Engineering (DIBt): Z-65.11-18
 Leak detector LAG as per German WHG, VAwS and BetrSichV	 Leak detection fluid container with probe	Coming soon	<ul style="list-style-type: none"> Flammable liquids of danger class A I, A II, A III and B Non-flammable, water-polluting liquids 	Single-channel Leak detector for double-walled tanks with liquid in the interstitial space. Technical Approval of the German Institute for Civil Engineering (DIBt): Z-65.24-1 / Z-65.24-380
 Boiler water low level alarm WMS	 Probe WMS	Coming soon	<ul style="list-style-type: none"> Water in boiler 	Single-channel Monitors the water level in the boiler and interrupts the power supply to the burner if the level is below the minimum value. Mark of conformity: TÜV HWB 09-345 and 09-348
 Gas and smoke detectors	 Smoke sensor Gas sensor	–	<ul style="list-style-type: none"> Explosive gases Vapours Smoke 	Dual-channel Suitable for monitoring rooms, buildings and public.
 Alarm unit for low gas level	 Pressure gauge with electrical contacts	–	<ul style="list-style-type: none"> Gases 	Single-channel Alarm unit for low gas level for monitoring the pressure in gas-filled containers.
 Alarm units WGA 01/01 D for separators	 WGA-ES4 (capacitance) WGA-ES8 (ultrasound, only for WGA 01 D) PTC thermistor probe WGA-R6	–	<ul style="list-style-type: none"> Oil Petrol Grease (Sludge, sand) 	Dual-channel / 3-channel (WGA 01 D) Monitors the layer thickness and the maximum level of separated liquid in oil, petrol and grease separators. WGA 01 D also for monitoring of sand and sludge accumulations.
 Alarm unit WGA 02/03 for separators	 WGA-SD 02 (conductivity) WGA-AS (capacitance)	–	<ul style="list-style-type: none"> Oil Petrol Grease 	Single-channel WGA 02 / dual-channel WGA 03 Monitors the layer thickness and the maximum level (WGA 03) of separated liquid in oil, petrol and grease separators.
 Alarm unit WGA 05 for separators	 WGA-SN (ultrasound) WGA-SD 02 (conductivity)	–	<ul style="list-style-type: none"> Oil Petrol Grease Sludge/sand 	Dual-channel Monitor sand or sludge accumulations in oil, petrol and grease separators as well as the layer thickness of the separated liquid.
 Alarm unit WGA 06 for separators	 WGA-ÖW (capacitance) WGA-AS (capacitance)	–	<ul style="list-style-type: none"> Oil Petrol Grease 	Single-channel 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.

Alarm unit	Probe	EnOcean®	Media	Application
 <p>Water alarm unit WM 5*</p>	 <p>Photoelectric probe</p>	Coming soon	<ul style="list-style-type: none"> Water 	<p>5 channels (rooms, locations)</p> <p>WM 5 monitors for water at up to five independent locations.</p>
 <p>Water alarm unit WWG</p>	<p>Wall mounting rail probe WSS or</p>  <p>Floor water probe BWS 11</p>	Coming soon	<ul style="list-style-type: none"> Water Conductive water mixtures Electrically conductive liquids Emulsions 	<p>Single-channel</p> <p>Suitable for water, but also for electrically conductive liquids, emulsions and conductive water mixtures.</p>
 <p>Oil/water alarm unit ÖWU*</p>	 <p>Wall mounting rail combination probe</p>	EnOcean-ready	<ul style="list-style-type: none"> Oil + water 	<p>Single-channel</p> <p>ÖWU distinguishes oil alarms and water alarms and indicates the appropriate alarm condition.</p>
 <p>Oil/water alarm unit ÖWWG 3</p>	 <p>PTC thermistor probe</p>	EnOcean-ready	<ul style="list-style-type: none"> Electrically conductive and non-conductive liquids 	<p>Single-channel</p> <p>ÖWWG 3 generates alarms in the event of accumulations of liquids caused by tank leaks, backwater, flooding, etc.</p> <p>Technical Approval of the German Institute for Civil Engineering (DIBt): Z-65.40-339</p>
 <p>Oil-on-water detector ÖAWD</p>	 <p>Floating Probe SWS</p>	Coming soon	<ul style="list-style-type: none"> Oil on water 	<p>Single-channel</p> <p>ÖAWD monitors standing water and calmly flowing bodies of water / water surfaces for pollution by oil.</p>
 <p>Oil alarm unit OM 5*</p>	 <p>Photoelectric probe</p>	Coming soon	<ul style="list-style-type: none"> Oil 	<p>5 channel</p> <p>For collection facilities below oil consuming equipment, pipe and cable ducts, pumps and control stations and tanks.</p> <p>Technical Approval of the German Institute for Civil Engineering (DIBt): Z-65.40-214</p>
 <p>Digital tank contents indicator DTA 10</p>	 <p>Pneumatic measuring line</p>	-	<ul style="list-style-type: none"> Fuel oil Diesel fuel Water Non-corrosive media (density 0.5 to 1.5 g/cm³) 	<p>Single-channel</p> <p>For manual level measurement and signaling of a minimum level during measurements – battery-operated</p>
 <p>Level indicator TankControl</p>	 <p>Submersible probe</p>	-	<ul style="list-style-type: none"> Fuel oil EL, L Diesel fuel Biodiesel Water 	<p>Single-channel/dual-channel</p> <p>For continuous level measurement and alarms in the event of minimum or maximum levels as well as level control.</p>
 <p>Level switches Minimelder / Maximelder</p>	 <p>Magnetic float switch</p>	Coming soon	<ul style="list-style-type: none"> Water Fuel oil EL, L, M Oil/water mixtures Neutral liquids 	<p>Single-channel</p> <p>Suitable to signal minimum or maximum levels in tanks containing liquids.</p>
 <p>Backup controller RENA</p>	 <p>Level probe</p>	-	<ul style="list-style-type: none"> Rainwater 	<p>Single-channel</p> <p>Controls backup supply of mains water if the rainwater level is low.</p>

* Application as leak detection system class III as per EN 13160-1/-4 as well as safety device as per worksheet DWA-A 791 und as leak detection system as per worksheet DWA-A779.

WATCHDOG ALARM UNITS

For fast detection of levels, accumulations of liquids, leakage, gases or smoke

WATCHDOG Alarm Units – Making Heating Systems Safe

- 1 Oil alarm unit OM 5 with EnOcean® wireless module TCM 320 for integration into smart building systems
- 2 PTC thermistor probe for tank room monitoring
- 3 PTC thermistor probe with drip pan
- 4 Gas and smoke detector GRM
- 5 Smoke sensor
- 6 Level indicator TankControl with reserve level alarm
- 7 Event reporting system EMS for monitoring and reporting dangers such as leaks, backwater, flooding, smoke and fire as well as tank contents via text messages or the AFRISO Net web service



Typical application areas

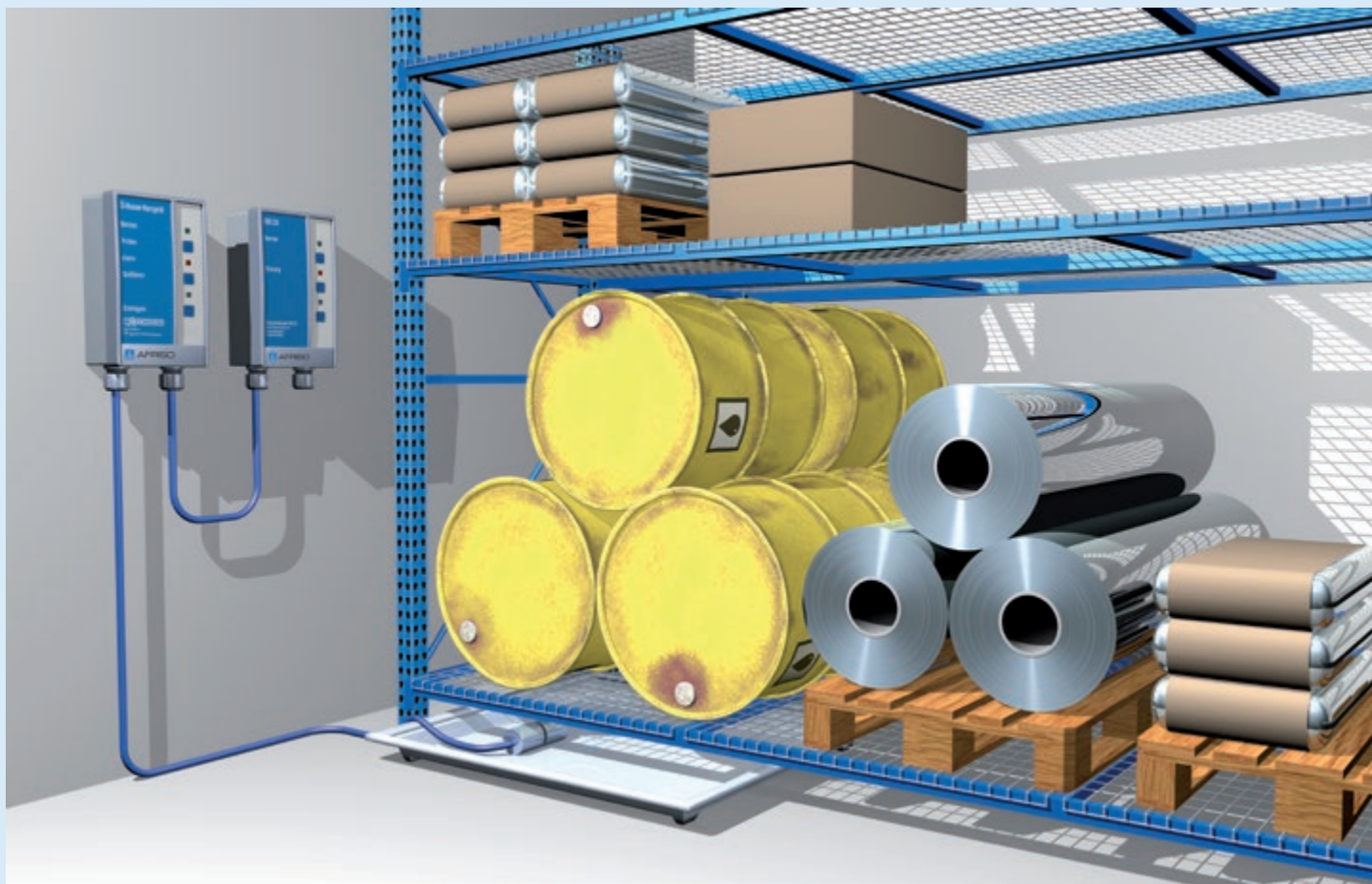
- Collection facilities below oil and water consuming equipment
- Drip pans below storage tanks, burners or motors in buildings or outdoors
- Containers, barrels and tanks/double-walled tanks
- Cisterns and water storage tanks
- Drinking water installations
- Oil depots, boiler rooms and rooms with mains water connection
- Heating systems
- Cable and pipe ducts
- Canal shafts, manholes and inspection 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
- 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.

AFRISO WATCHDOG alarm units report undesirable events, danger and emergency conditions early so that immediate measures can be taken. WATCHDOG alarm units excel with easy and intuitive operation. A

large variety of probes and sensors enable fast detection of liquid levels, leakage and accumulations of liquids, gases or smoke. Integrated visual and audible alarms provide the appropriate signals in danger conditions.

WATCHDOG for industrial applications, for example, 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 class A III
- Motor oils, gearbox oils and hydraulic oils
- Vegetable oils and transformer oils
- Flammable liquids of danger class A I, A II, A III, B
- Beverages
- Antifreeze agents and fertilisers
- Emulsions
- Sludge, sand
- Oil, petrol and grease layers
- Conductive water mixtures and liquids
- Gases, vapour, smoke

Versions with EnOcean wireless module are available for remote alarms and easy integration into smart building systems. 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 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 with integrated visual and audible alarms, Acknowledge button and relay output



Probes and sensors for a great variety of applications

i Pluggable EnOcean® wireless module TCM 320 for WATCHDOG PCBs, can be ordered separately for EnOcean-ready products.



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 building 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



Event reporting systems EMS

In conjunction with the AFRISO EMS event reporting system, the alarm units signal events such as low level messages, error messages, level information, malfunctions and accidents via text messages, all around the globe, 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.



The company

AFRISO, founded by Adalbert Fritz in Schmiedefeld, Germany in 1869, is an innovative, medium-sized company with a total staff of over 1,000 worldwide, over 500 of which are employed at the five German sites.

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



Headquarters in Güglingen



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.

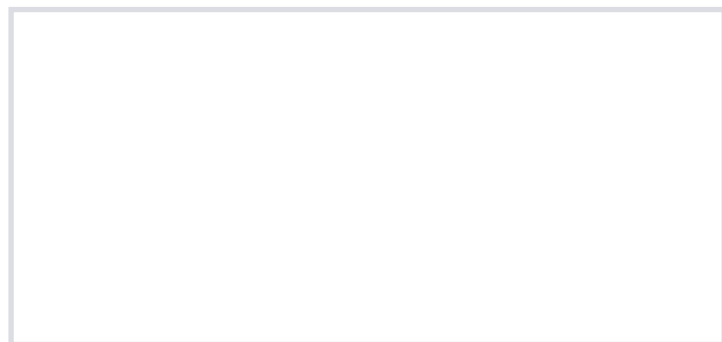
- Research and development
- Tools and equipment making
- Highly versatile and rational production
- Highest quality levels
- National and international approvals

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 please request a CD-ROM copy of our complete catalogue at www.afriso.com/catalogue



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Technology for Environmental Protection
Measuring. Controlling. Monitoring.

