

Personal building automation with AFRISOLab



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Safety means more comfort – the intelligent, energy-saving building with AFRISOLab

AFRISO has been manufacturing alarm units for the safe operation of tank facilities and heating systems for more than 60 years. So far, alarms were mainly signalled directly on site. Transferring alarm messages to building control systems was possible, but it involved considerable effort.

The wireless transmission standard EnOcean®, available for domestic technology since 2003, breaks new ground for a completely different approach to building automation. The transmission protocol allows a whole range of different products to be networked on the basis of EnOcean® wireless. This technological milestone breaks new ground for building automation not only in new buildings – reasonably priced intelligent networking becomes possible in existing buildings. Products with an EnOcean® wireless module do not require cable connections to a building control centre and can be used almost anywhere in buildings due to their compact design.

Manufacturers from a great variety of areas have teamed up in the EnOcean® Alliance and offer a large range of products. With the Smart Building System AFRISOLab, AFRISO has developed a portfolio of outstanding sensors and alarm units for reliable leakage protection (for example, water/oil) as well as devices for controlling heating systems in an economical way. AFRISOLab products are cost-effective, reliable and practical.

Even for end customers, there are no more barriers to entry into the networked world of customised, modularly extensible building automation and security systems. The perfect approach to a flexible smart building solution.



No cables.

No cables are required for building automation systems on the basis of the EnOcean® wireless technology. Ten metres of power cable (NYY 3 x 1.5 mm) weigh approx. 2.3 kg – not using this cable saves money and is great for the environment.



No batteries.

Energy harvesting is the foundation of battery-less, maintenance-free and flexible building automation. The energy required for sending messages is derived from ambient sources – small movements, pressure, light, temperature or vibration are sufficient to allow for power-independent operation of the sensors.



No limits.

Renovation projects and new buildings benefit from the new, creative and innovative developments based on EnOcean® wireless technology. There are countless ways of combining EnOcean® products.



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A fully featured smart building system on the basis of EnOcean wireless technology networks all light, heating and air conditioning control systems via a central gateway. The gateway processes sensor and consumption data, triggers control action and initiates other measures, and transmits the information to mobile devices such as smartphones, tablets, etc., via WLAN, Internet or GSM. Products from other members of the EnOcean® Alliance for controlling household appliances can also be integrated.

Smart Building with AFRISOLab

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|----|--|----|--|
| 1 | Room temperature sensor <i>FT</i> | 12 | Universal wireless transmitter <i>FTM</i> with pressure gauge with electrical contact for monitoring the boiler safety group assembly |
| 2 | Mechanical water alarm <i>WaterSensor eco</i> | 13 | WATCHDOG series oil/water alarm unit <i>ÖWWG 3</i> |
| 3 | Wireless relay <i>ABR 132</i> with repeater function | 14 | Universal wireless transmitter <i>FTM</i> with pressure gauge with electrical contact as service indicator, for example, at the vacuum gauge of fuel oil filters |
| 4 | Room air monitoring: <i>CO₂ sensor</i> | 15 | Universal wireless transmitter <i>FTM</i> with Minimelder minimum level probe for level monitoring |
| 5 | Single room temperature controller <i>CosiTherm® wireless</i> | | |
| 6 | AFRISOhome gateway <i>HG 01</i> | | |
| 7 | Wireless rocker switch <i>FT4F-rw</i> | | |
| 8 | Door and window contact <i>AMC 10</i> | | |
| 9 | Conductivity water alarm <i>WaterSensor con</i> | | |
| 10 | Radio-controlled water valve <i>WaterControl 01</i> | | |
| 11 | Universal wireless transmitter <i>FTM</i> with pressure gauge with electrical contact for monitoring the solar safety group assembly | | |

Not shown

- + Wireless actuator for radiators *AVD 10*
- + Wireless plug-in socket *APR 234* with repeater function
- + Wireless presence detector *APD 10*
- + Wireless water meter *AWM*