

SMART HOME



JUNG PUMPEN RADIO TRANSMITTER

CONTROL TECHNOLOGY

SMART HOME

IF FLOODWATER THEN ALARM

Everyone is talking about smart home applications these days. Safety-relevant incidents such as fires or flooding present a good opportunity for explaining the benefits of smart technology to homeowners.

Pentair Jung Pumpen is expanding its portfolio to include the FTJP radio transmitter which permits a variety of scenarios inside a building.

In future, all lifting stations, pump stations and alarm units that have a potential-free output can be integrated into a smart infrastructure.



RADIO SENSOR FTJP

POSSIBLE WASTEWATER SCENARIOS

compli + FTJP



IF compli alarm THEN

- Hi-fi system - sound on
- Living room - lights flashing
- Message to smartphone

AGE water detector + FTJP



IF AGE alarm THEN

- Electrical closing of cellar window
- Turn washing machine off
- Close fresh water valve
- Put pump into operation
- Message to smartphone

PKS pumping station + FTJP



IF PKS alarm THEN

- Alarm siren on
- Toilet lighting on/off
- Message to smartphone



**ENOCEAN-capable gateway
(e.g. WIBUTLER, AFRISO)**



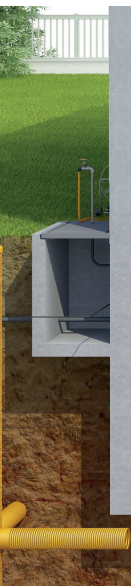
Washing machine



Smartphone



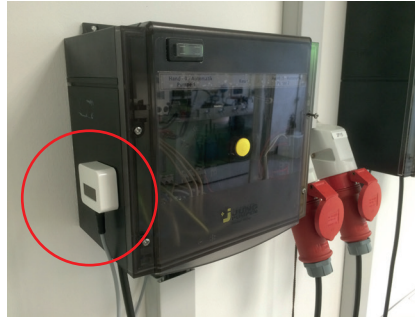
Cellar window



RETROFITTING IS SIMPLE

The FTJP radio transmitter enables appliances with a potential-free contact to be easily integrated into the building automation. This makes it very easy to connect Jung Pumpen lifting plants, alarms and pumping stations into the automation system.

Gateways that support the EN-OCEAN radio protocol can be used to communicate with the FTJP radio transmitter. All you have to do is programme the radio transmitter into the gateway provider's app and you're all set to go.

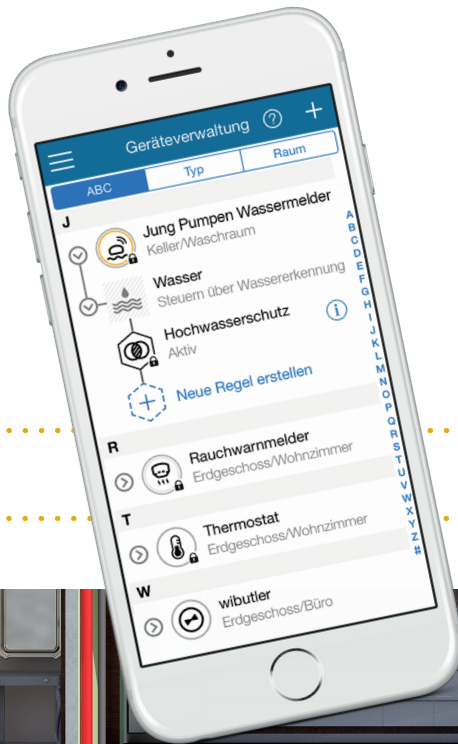


Error messages such as incidents concerning flooding, the detection of water or pump failure are transmitted to the gateway if an incident occurs. Whether additional events should be triggered in the building or only an alarm message should be forwarded to the smartphone is decided by the system user alone.

A part from switching the potential-free contact, the radio transmitter conveys the ambient temperature and indicates the need for a battery change if the battery does not have the necessary power after approximately 2 years.

OPEN AND EXPANDABLE

The key component of a smart home system is the gateway where all information comes together. Here, logic operations are defined and stored (if this then that) with the aid of a smartphone app.



ALARM AND MORE

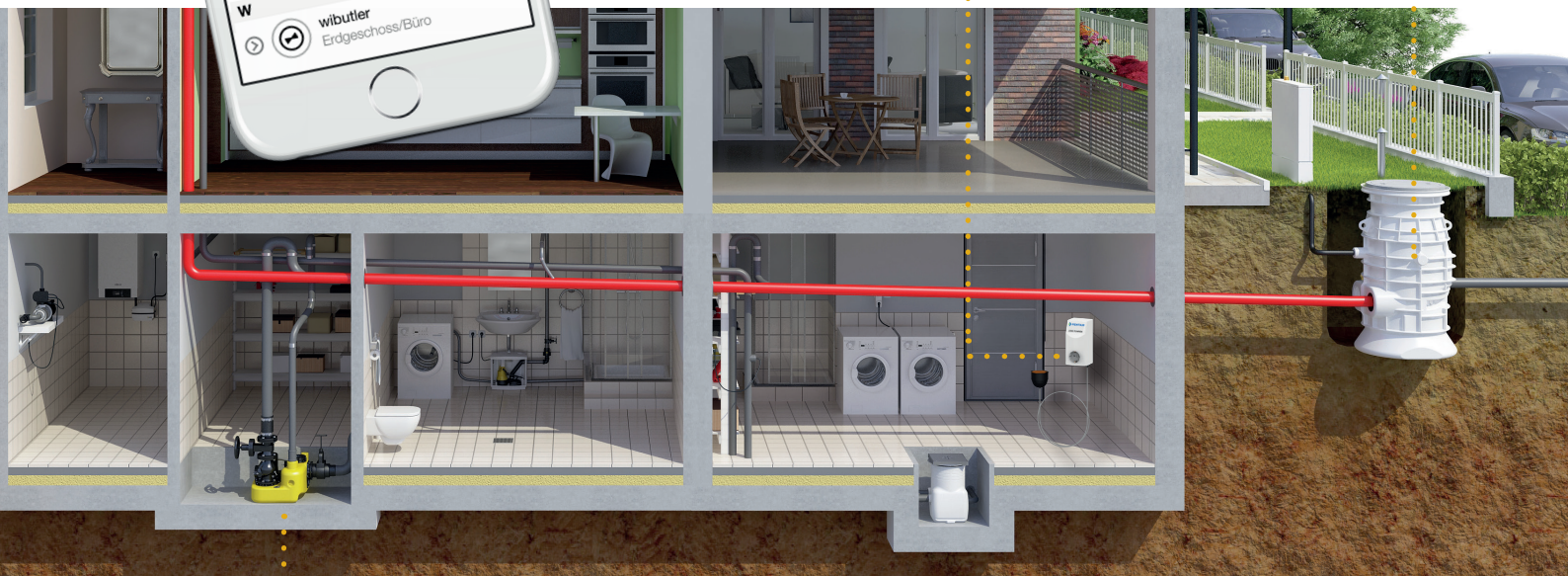
The energy needed to transmit the change in status is generated by the integrated photovoltaic cell. A battery also supplies energy to the sensor.

WIBUTLER GATEWAY*



WIBUTLER APP

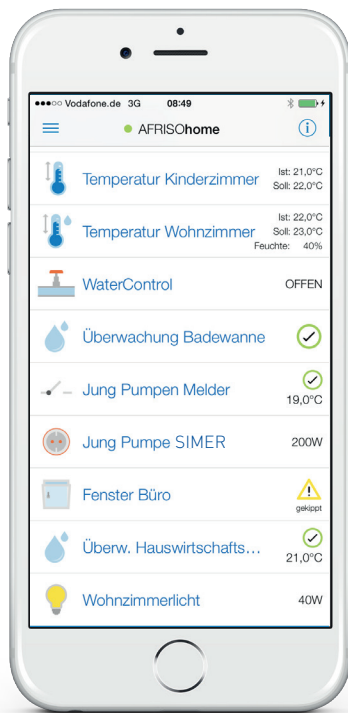
* Any ENOCEAN-capable gateway can be used for the FTJP radio transmitter.



The FTJP radio transmitter is compatible with all commercial gateways that have an ENOCEAN protocol. (A current list of suitable gateways can be found at www.jung-pumpen.de/SH_gateway.html)

Particularly easy access is obtained using gateways such as from iExergy or AFRISO. Gateways link up smart products used for a variety of different purposes and make them controllable using the particular app. From small automation projects to a fully connected home, gateways make it possible for different wireless systems (EnOcean, Z-Wave, ZigBee, Bluetooth Smart, Bluetooth, WLAN) to communicate with each other.

Tailor-made scenarios can be defined to suit each customer's needs. So if, for instance, a pump fails or water is detected in the cellar, it is possible to turn off the washing machine, close the cellar windows electrically and shut off the fresh water supply at the same time. These are all incidents that may be directly related to the water detected in the cellar. It is also possible of course to activate a Jung Pumpen pump at the same time. This will then drain any water from the lowest point of the cellar into the nearest drain.



AFRISO APP



AFRISO GATEWAY

TECHNICAL DATA

EnOcean® wireless technology (868 MHz)

Transmitting cycle:
If status change / function monitoring by heartbeat

Range: 10 to 30 m
(depending on the building situation and construction materials)

Temperature measurement range

- ▶ Measurement range: 0/40 °C (±1 K)

Supply voltage

- ▶ Energy harvesting (with photovoltaic cell)
- ▶ 1/2 AA lithium battery, DC 3.6 V Housing
- ▶ W x H x D: 52 x 40 x 17 mm
- ▶ Weight: 22 g
- ▶ Protection category: IP 54 (EN 60529)

Scope of supply

- ▶ Universal FTJP radio transmitter with cable
- ▶ Wall holder
- ▶ 2 x adhesive points
- ▶ Battery

Code number

- ▶ JP47209

