

Conductivity water sensor WaterSensor BWS



Benefits

- No cables required (operation via photovoltaic cell or battery)
- Robust, non-breakable probe especially for utility rooms
- Additional room temperature measurement via wireless transmitter
- EnOcean® wireless technology



Application

For the detection of accumulations of water at defined horizontal surfaces or positions (e.g. in the area of fittings, washing machines, below pipes, etc.). Suitable for water.

Versions

	Part no.
Water sensor WaterSensor BWS	55120

Blue part no. = in-stock items

Description

WaterSensor BWS consists of a probe with extension cable and a wireless transmitter with an integrated temperature sensor. The probe features a conductivity sensor at the bottom. The energy required to send an EnOcean® wireless telegram is generated by means of a photovoltaic cell in the wireless transmitter. An optional battery can be used for application in darker rooms. WaterSensor BWS cyclically transmits the actual ambient temperature and the logical state of the conductivity sensor (conductive liquid present or not present) and also sends a telegram when the state changes via the integrated EnOcean® wireless module to the water valve WaterControl or to the AFRISOhome gateway. WaterControl can close the water pipe in response to an event message to keep further water from escaping. The AFRISOhome gateway transmits alarm messages and status messages via WLAN or LAN to the person in charge (for example, to the owner, the facility manager, the janitor or other configured contacts); the message includes information on which water sensor has signalled the state transition. The AFRISOhome gateway in conjunction with additional AFRISO smart home products with EnOcean® wireless technology allows the user to configure a whole range of fully customisable, extensible applications.



Technical specifications

Operating temperature range

Ambient:	0/40 °C
Storage:	-20/+60 °C
Medium:	1/60 °C

Response level

Approx. 2–3 mm

Temperature measurement

Measuring range:	0/40 °C
Accuracy:	± 1 K

Supply voltage

Energy harvesting (via photovoltaic cell)
1 x 3.6 V 1/2 AA lithium battery
(at daylight of less than 200 lx)

Housing

Plastic housing (PC)	
Colour:	White, similar to RAL 9003
W x H x D:	52 x 40 x 17 mm
Weight:	22 g
Degree of protection:	IP 54 (EN 60529)

Floor water probe BWS 10-2

Dimensions ø x L:	75 x 40 mm
Cable length:	1.8 m

EnOcean® wireless

EEP:	A5-30-03
Frequency:	868.3 MHz
Transmission power:	Max. 10 mW
Range:	10 – 30 m
Range:	depending on room arrangement and materials in the building

Scope of delivery

- Wireless transmitter
- Floor probe BWS 10-2 with connection cable

Necessary additional components

- WaterControl 01 and/or
- Indoor siren AIS 10 and/or
- AFRISOhome gateway