

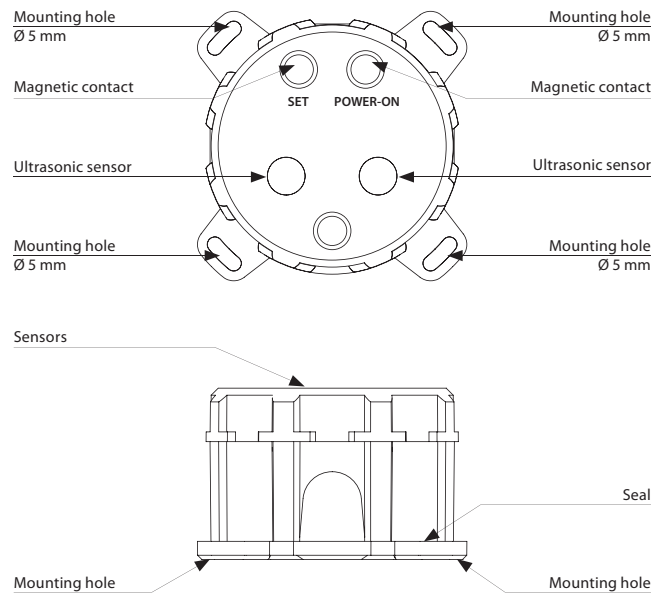
AirWS-100 | Ultrasonic fill-level sensor



- The sensor informs about the fill volume condition of the container, the waste container, may trigger a requirement to empty it. It also informs you of the actual temperature in the scanning area.
- It has a built-in sensor for opening the lid or for tipping over the waste container.
- With wireless technology and its compactness, the device can be used in a variety of applications.
- Reliable measurement, regardless of material colour, transparency, gloss and interference light.
- With the wireless solution and Sigfox / LoRa / NB-IoT communication, it can communicate instantly to your chosen location and be operated immediately.
- Data is sent to the server from which it can be subsequently displayed as a smartphone, application, or Cloud notification.
- Battery status information is sent as a message to the server.
- Power: 2x Li-SOCL₂, 3.6V (integrated) battery life up to 8 years according to frequency of measurement and message transmission.
- The IP65 is suitable for installation in demanding environments.

Technical parameters	AirWS-100S	AirWS-100L	AirWS-100NB
Power supply	non-removable battery		
Battery power:	2 x Li-SOCL ₂ , 3.6V		
Battery life:	up to 8 years according to frequency of measurement and message transmission		
Battery status view:	message to the server		
Setting			
Setting:	With a message from the server, magnetic keys, RFAF/USB Service Key		
Measured values:	message to the server		
Fill detection			
Detection principle:	ultrasonic		
Range:	5 - 300 cm		
Resolution:	1 cm*		
Input			
Temperature measuring:	built-in sensor		
Range:	-30 .. 85 °C		
Sensitivity:	1 °C		
Accuracy:	± 3 °C		
Position detection			
Tilt sensing:	digital sensor		
Angle:	± 180 °		
Accuracy:	± 5 °		
Communication			
Protocol:	iNELS RF Control RFIO**		
Transmitter frequency:	868 MHz		
Range in open space:	up to 20m		
Protocol:	Sigfox	LoRa	NB-IoT
Transmitter frequency:	RCZ1 868 MHz	868 MHz	LTE Cat NB1***
Range in open space:	Approx. 50 km****	Approx. 10 km****	Approx. 30 km****
Transmission power (max.):	25 mW / 14 dBm	25 mW / 14 dBm	200 mW / 23 dBm
Other parameters			
Working temperature:	-30...+85 °C		
Storage temperature:	-30...+85 °C		
Operation position:	sensing contacts downwards		
Mounting:	screws		
Protection degree:	IP65		
Dimension:	Ø 97 x 62 mm		

Device description



Function

The sensor measures the temperature in the space every minute, simultaneously detects the position of the sensor (e.g. opening the lid, tipping over the waste container, etc.). At twelve hours *, ultrasonic sensors scan the distance between the sensor and the surface being scanned.

Data reports measured values sent in twelve-hour period*. In the case of detecting changes in position of the sensor (opening of the lid, etc.) in 5 minutes*. In the event of a sharp rise in temperature it is reported immediately. Settings: by using supplied magnet (included in the supply).

* Intervals can be set by message from the server.

* Depending on type and content storage

** For service purposes

*** Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28

**** Depending on network coverage