- The flood detector is used to detect water leakage - the activation occurs the moment the flooding of the contacts located on the underside of the detector occurs.
- Provides a quick solution to learn about unwanted flooding in your bathroom or kitchen that you can react too immediately.
- With a wireless Sigfox / LoRa / NB-IoT communication network the device can be immediately put in the desired location and run immediately.
- Flood detection is signalled by vibration, optical and acoustic signalling. In the case of water detection, data is sent to the server, ...
- Data is sent to the server from which it can be subsequently displayed as a smartphone, application, or Cloud notification.
- Anti-sabotage: If access to the device is unauthorized, a message is immediately sent to the server.
- Power supply: 1x CR123A.

Technical parameters	AirSF-100S	AirSF-100L	AirSF-100NB
Power supply			
Battery power:	1x CR123A battery		
Battery life by frequency *:			
1x 10 minutes	0.3 year	3 years	2 years
1x 60 minutes	1.5 years	5 years	4 years
1x 12 hours	4.5 years	5.5 years	5.5 years
1x 24 hours	5 years	6 years	6 years
Setting			
Alarm Detection:	message to the server, vibration, optical and audible alarm		
Battery status view:	message to the server		
DIP switch:	Position 3: turn off sound signal Position 2: turn off mechanical signal Position 1: turn off optical signal		
Acoustic signal:	greater than 45 dB / 1m		
Detection			
Sensor:	contacts for flooding		
Detection principle:	contact between the sensor sensed liquid		
Response Time:	2 s after connecting the scanning contacts		
Measurement accuracy:	99.8 %		
Sensitivity:	in the range 0.03 - 20 kΩ		
Indication			
- red LED:	broadcast, alarm		
Communication			
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:	0…+50°C (Pay attention to the operating temperature of batteries)		
Storage temperature:	-20…+60°C		
Operation position:	capture contacts for flooding downwards		
Mounting:	loose		
Protection degree:	IP62		
Dimension:	Ø 89 x 23 mm		
Weight:	92 g		

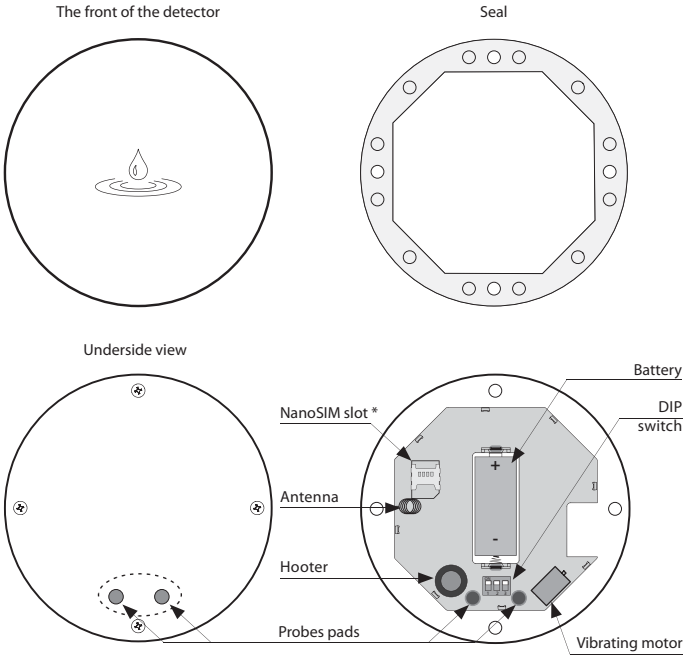
* Values are calculated under ideal conditions, without triggering an energy-intensive alarm (vibration, light and sound signal)
** Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28
*** Depending on network coverage

Function

When the scanning contact is connected, the detector sends the data message and starts the set alarm.

The signalling type can be set by the DIP switch.

Device description



* (AirSF-100NB only)

Conductivity of liquids

Liquids suitable for detection

Type of liquid	Resistivity [Ωcm]*
Drinking water	5-10 kΩ
Well water	2-5 kΩ
River water	2-15 kΩ
Rain water	15-25 kΩ
Waste water	0.5-2 kΩ
Seawater	~0.03 kΩ
Salt water	~2.2 kΩ
Natural / hard water	~5 kΩ
Chlorinated water	~5 kΩ
Condensed water	~18 kΩ
Milk	~1 kΩ
Milk serum	~1 kΩ
Fruit juices	~1 kΩ
Vegetable Juices	~1 kΩ
Broths	~1 kΩ
Wine	~2.2 kΩ
Beer	~2.2 kΩ
Coffee	~2.2 kΩ
Soap toam	~18 kΩ

Inadmissible liquids

Demineralised water
Deionised water
Bourbon
Gasoline
Oil
Liquid gases
Paraffin
Ethylene glycol
Paints
High alcohol-content liquids

* Resistivity characterizes the local conductivity or resistive properties of materials which conduct electric current.