

# WATER LEAK CABLE

Detect a water leak on the ground, around an object or equipment.



**ACT**

Control equipment in response to a change of state.

Activate or restart equipment remotely at any time.



**ALERT**

Alert on events:

- raise an alert in the event of the presence of water,
- warn of return to normal.



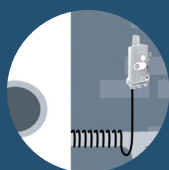
**MONITOR**

- Count the time spent in a state.

## Additional features:



- **Four configurable digital inputs/outputs:**
  - Control an output based on the change in state of an input
  - Remote and in near-real time control of an output - **LoRaWAN Class C**
  - Track the time spent in a given state
- **Data transmission modes:** periodic and/or event-triggered
- Local and remote product configuration



Wrap the sensing cable around a water pipe in order to detect a possible leak.



Position the cable around sensitive elements or along baseboards to be warned of possible water damage.

# TECHNICAL SPECIFICATIONS



## WATER LEAK CABLE

### Current versions and associated part number

LoRaWAN	US902-928	ARF8170BRA-B03
	AU915-928	ARF8170IRA-B03
	AS923	ARF8170JRA-B03
Sigfox	RC2	ARF8170DRA-B03
	RC4	ARF8170KRA-B03

### General specifications

Weight	128g (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (housing), EMERGE™ PC8430-15 transparent resin (base)
Mounting	DIN rail, tube, wall, collar
Battery Type	Battery power: replaceable battery (4000 mAh) External power supply (not supplied): input range 4.5 - 6.5V - Max current 200mA USB power supply: supply voltage 5V nominal - Max current 200mA
Recommended operating conditions with battery supply	-25°C / +70°C ; 0 à 85% RH (non-condensing)

### Device configuration

Local device configuration	IoT Configurator (Windows/Android)
Remote device configuration	Downlink via the network or via the KARE platform
Security	PIN/PUK code protection

INPUTS		OUTPUTS	
Number	up to 4 by configuration	Number	up to 4 by configuration
Voltage	0 - 24 V	Voltage	0 - 24 V
Equivalent input resistance	500 kΩ	Recommended dissipation max current	150 mA
Input frequency	10 Hz	Output frequency	10 Hz

### WATER SENSOR

Cable Length	2 meters
Installation	Arround an equipment, along a wall or rolled around a pipe
Detection	Capillary action
Liquid	Only Water (conductive liquid)



# TECHNICAL SPECIFICATIONS



## LoRaWAN WATER LEAK CABLE

Zone	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz
Part number	ARF8170BRA-B03	ARF8170JRA-B03	ARF8170IRA-B03
<b>Autonomy</b>			
Expected Battery Life	SF7: > 15 years SF12: > 15 years		
1 transmission/4 hours, 4 inputs in default «open» state and 100 events per day			
<b>Radio/Wireless features</b>			
LoRaWAN spec.	1.0.4		
Wireless Security	AES-128 data encryption		
Class	Class A and Class C (if external power supply connected)		
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup		
Joining phase	Can be customised (number of attempts, time between attempts), remote join re-launch		
Network quality test	Performed automatically when the product starts up (via LEDs)		-
RF transmit power	+ 20 dBm	+ 14 dBm	+ 20 dBm
<b>Regulations and certifications</b>			
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268	AS/NZS 4268

## Sigfox WATER LEAK CABLE

Zone	RC2	RC4
Part number	ARF8170DRA-B03	ARF8170KRA-B03
<b>Autonomy</b>		
Expected Battery Life	>15 years	>15 years
1 transmission/4 hours, 4 inputs in default «open» state and 100 events per day		
<b>Radio/Wireless features</b>		
Class	Class 0	
RF transmit power	+ 20 dBm	+ 14 dBm
<b>Regulations and certifications</b>		
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268

