

WATER LEAK CABLE

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



Dry Contacts

Sensor of water presence



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.



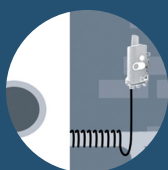
MONITOR

- 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



LoRaWAN ARF8170ARA-B03

Mechanical specifications

Weight	128g (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar
Cable length	70 cm + 10 cm of stripped wire

Operating conditions

Temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

Device Power Supply

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
Expected Battery Life	1 transmission/4 hours, 4 inputs in default «open» state and 100 events per day: SF7: > 15 years SF12: > 15 years
External power supply	Input range 4.5 - 6.5 V - Max current 110mA

Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and firmware update from the air	KARE+ compatible
Security	PIN/PUK Code protection

Radio/Wireless

Supported regions	LoRaWAN EU863-870
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
Data time-stamping	EPOCH 2013 format (can be activated)
Joining phase	Customisable (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	14 dBm

Regulations and certifications

Standard	Directive 2014/53/UE (RED)
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INPUTS / OUTPUTS

Number	up to 4 by configuration
Voltage	0 - 24 V
Equivalent input resistance	500 kΩ
Input/Outputs frequency	10 Hz
Recommended dissipation max current	100 mA

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)

