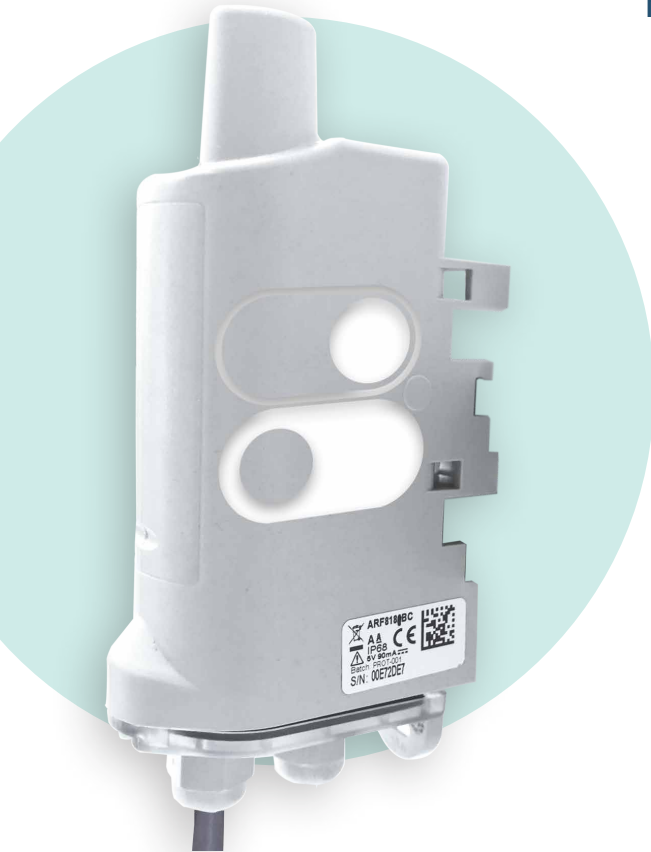# DRY CONTACTS
IP68

adeunis
IOT PRODUCTS & SOLUTIONS

Report 0-1 states, control relays or equipment, measure machine operating time.

Functions: **4 configurable inputs/outputs**

ACT
Automatically activate or restart equipment remotely or following an event

ALERT
Alert on events:
· Fault feedback,
· Alert on detected event,
· Access control,
· Detection of water presence.
Alert if an event exceeds a certain duration

MONITOR
Count the time spent in a given state

+ Additionnal features:
· Periodic and/or event mode
· **Error or Default management:** hardware error, configuration inconsistancy and low battery alert
· **Timestamp of the frame** (LoRaWAN)
· **Network Quality Test at start-up** (LoRaWAN)
· **Class C** LoRaWAN

Detect the opening of a door in a restricted area.

Count the time a fridge has been left open.

Automatically restart a machine following the triggering of an event.

LoRaWAN ARF8170BCA

Mechanical specifications	
Weight	87 g (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	1 replaceable battery or external power supply
Expected Battery Life	For 1 frame every 4 hours (6 frames/day), default open state entry: - LoRaWAN SF12 or SF7: > 10 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
Wireless Security	AES-128 data encryption
Class	Class A & Class C
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm
Sensitivity	-136 dBm LoRaWAN @SF12

Regulations and certifications	
Standard	Directive 2014/53/UE (RED)

INPUTS			OUTPUTS	
Number	up to 4 by configuration		Number	up to 4 by configuration
Voltage	0 - 24 V		Charging voltage	0 - 24 V
Equivalent input resistance	500 kΩ		Recommended dissipation max current	100 mA
Input frequency	10 Hz		Output frequency	10 Hz