

### COMFORT



# Optimize occupant comfort and energy performance in a building.



## Functions: temperature, humidity, alert button, dry contact input



- · Monitor regularly:
  - · Temperature
  - · Humidity level
- Count the number of events
   on the alert button or the dry contact input



**ALERT** 

#### AND/OR Trigger an alarm if:

- high and/or low threshold(s) exceeded press on alert button
- number of events reached on the dry contact input

#### Additionnal features:

- Battery-operated: over 15 years maintenance-free autonomy
- · Data logging: up to 16 samples / frame
- · Accessibility of the data: redundancy
- · Mode of data transmission: periodic and/or on events
- · Alarm repetition in case of a persistent event
- Error or Default management: hardware error, configuration inconsistancy and low battery alert
- · Timestamp of the frame (LoRaWAN)
- Network Quality Test at start-up (LoRaWAN)



Quickly detect drifts temperature and optimise energy performance.



To be alerted if humidity exceeds a threshold to prevent possible damage.



Check the ambient temperature to ensure correct operation of the equipment.







#### LoRaWAN ARF8275ARA | Sigfox ARF8275CA

Mechanical specifications				
Weight	107g (battery included)			
Dimensions	111 x 61 x 50 mm			
Enclosure	IP20, Bayblend® FR3010 (PC/ABS) plastic, white			
Mounting	Wall			
Recommanded operating conditions				
Temperature	+5°C / +60°C			
Humidity	0 to 85% RH (non-condensing)			
Device Power Supply				
Battery Type	1 connectorized battery pack (4000 mAh)			
Expected Battery Life	For 1 frame every 2 hours (12 frames per day): - Sigfox: 5.4 years (scan every 20 minutes) - LoRaWAN SF12 or SF7: > 15 years (scan every 10 minutes)			
Device configuration				
Local device configuration	IoT Configurator			
Remote device configuration	Downlink via the network or via the KARE platform			
Configuration and firmware update over-the-air	KARE+ compatible			
Security	PIN/PUK code protection			
Radio/Wireless				
Supported regions	LoRaWAN EU863-870 / Sigfox RC1			
Wireless Security	AES-128 data encryption (LoRaWAN only)			
Class	LoRaWAN: LoRaWAN: Class A   Sigfox: Class 0   Sigfox: Class 0			

#### Regulations and certifications

Supported LoRaWAN features

RF transmit power

Sensitivity

Standard Directive 2014/53/UE (RED)

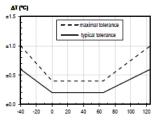
14 dBm

SENSOR Temperature		SENSOR Humidity	
Sensor technology	CMOSens®	Sensor technology	CMOSens® sensor chip
Range	-40°C / +120°C	Extended range	0 to 100 RH%
Type resolution	0.1°C	Type resolution	1% RH
Accuracy	See figure 1	Accuracy at 25°C	See figure 2
		Typical tolerance of RH over T°	See figure 3

OTAA, ABP, ADR, adaptive channel setup

-130 dBm LoRaWAN @SF7 / 130 dBm Sigfox

Figure 1 Temperature accurancy



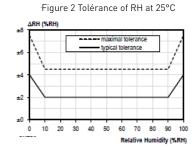


Figure 3 Typical tolerance of relative humidity over Tempeature

