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



AND/OR Trigger an alarm if:

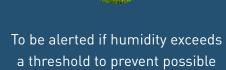
- high or low threshold(s) exceeded press on alert button
- number of events reached on the dry contact input

Additionnal features:

- · Autonomy optimization: historization
- · 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)







damage.



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

Quickly detect drifts temperature and optimise energy performance.

TECHNICAL SPECIFICATIONS





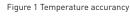
LoRaWAN ARF8275AA | Sigfox ARF8275CA

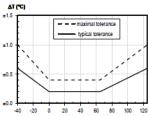
Mechanical specifications			
Weight	102g (battery included)		
Dimensions	111 x 61 x 50 mm		
Enclosure	IP20, Bayblend® FR3010 (PC/ABS) plastic, white		
Mounting	Wall or Laid		
Operating conditions			
Temperature	-20°C / +60°C		
Humidity	0 to 85% RH (non-condensing)		
Device Power Supply			
Battery Type	1 connectorized battery pack		
Expected Battery Life	For 1 frame every 2 hours (12 frames per day): - Sigfox: 4.2 years (scan every 20 minutes) - LoRaWAN SF12 or SF7: > 10 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		
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup		
RF transmit power	14 dBm		
Sensitivity	-136 dBm LoRaWAN @SF12 / 122 dBm Sigfox		

Regulations and certifications

Standard Directive 2014/53/UE (RED)

SENSOR Temperature		SENSOR Humidity	
Sensor technology	CMOSens®	Sensor technology	CMOSens® sensor chip
Range	-40°C / +125°C	Extended range	0 to 100 RH%
Type resolution	+/- 0.015°C	Type resolution	0.01 %RH
Accuracy	See figure 1	Accuracy at 25°C	See figure 2
		Typical tolerance of RH over T°	See figure 3





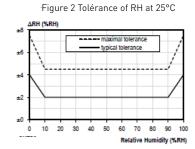


Figure 3 Typical tolerance of relative humidity over Tempeature

RH (%RH)

100

90

80

70

60

50

±2

40

30

20

30 40 50 60 70 80

Temperature (°C)

