

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)



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.

TECHNICAL SPECIFICATIONS



Alliance	
Certified	

LoRaWAN ARF8275AA Sigfox ARF8275CA						
Mechanical specificati	ons					
Weight	Weight 102g (battery		ncluded)			
Dimensions		111 x 61 x 50 m	m			
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 configura	tion	IoT Configurator				
Remote device configuration		Downlink via the network or via the KARE platform				
Configuration and firmware up- date 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 certif	ications					
Standard Directive 2014/53/UE (RED)						
SENSOR Temperature			SENSOR Humidity			
Sensor technology	ensor technology CMOSens®		Sensor technology	CMOSens® sensor chip		
Range -40°C / +125°C		25°C	Extended range	0 to 100 RH%		
Type resolution +/- 0.015°C		С	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		



120



Figure 3 Typical tolerance of relative humidity over Tempeature



-40

ò

