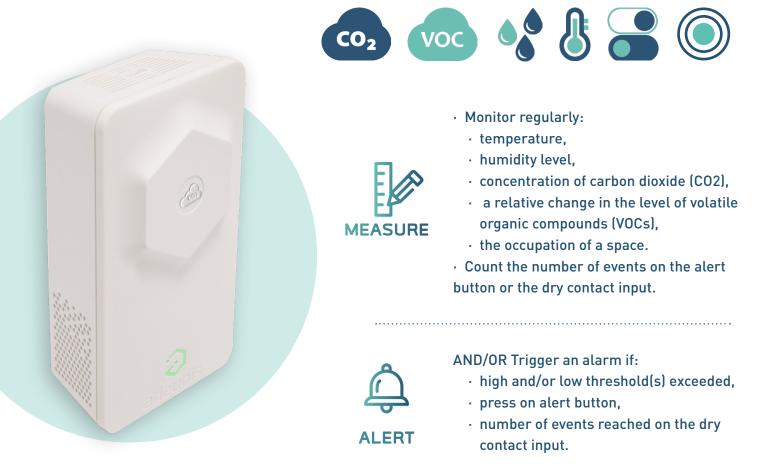


## COMFORT SERENITY

# Optimize occupant comfort and energy performance in a building.



#### Additional features:

- 6 in 1 product: temperature, humidity, CO2, VOCs, dry contact input, alarm button
- · Data transmission modes: periodic and/or events-triggered
- Preserved autonomy: switch-off time for main functions , data logging
- · CO2 level in real time: configurable led indicator (can be disabled)
- Measurement accuracy: automatic or manual calibration of the CO2 sensor
- Air containment index (ICONE): automatic, daily calculation
- Local and remote product configuration



Working environment Ensuring air quality in the workplace for the comfort and health of users.

Schools, Colleges and High Schools In response to legislation: monitoring and improving indoor air quality.

## TECHNICAL SPECIFICATIONS





#### **COMFORT SERENITY**

Current versions and associated p	art number	
	US902-928	ARF8373BRA
LoRaWAN	AU915-928	ARF8373IRA
	AS923	ARF8373JRA
Sigfox	RC2	ARF8373DRA
	RC4	ARF8373KRA
General specifications		
Weight	141g (battery included)	
Dimensions	111 x 61 x 40 mm	
Enclosure	IP20, Bayblend® FR3010 (PC/ABS) plastic, white (for indoor use)	
Mounting	Wall	
Battery Type	Dual replaceable battery pack (8000 mAh)	
Recommanded operating condi- tions	+5°C / +50°C ; 0 to 85% RH (non-condensing)	
Device configuration		
Local device configuration	loT Configurator (Windows/Android)	
Remote device configuration	Downlink via the network or via the KARE platform	
Security	PIN/PUK code protection	

Environmental parameters	TEMPERATURE	HUMIIDTY	
Sensor technology	CMOSens®	CMOSens®	
Range	-40°C / +120°C	0 to 100 RH%	
Resolution (typ.)	0.01°C	0.01% RH	
Accuracy (typ.)	± 0.2°C	± 2% RH	
Air quality parameters	C02	VOC(s)	
Sensor technology	NDIR	MOX	
Range	Up to 5,000 ppm; Extended range up to 10,000 ppm	VOC index scale from 1 to 500 points	
Resolution (typ.)	1 ppm	-	
Accuracy (typ.)	± 30 ppm +3% of measurement over the 400 to 5000 ppm range	< ± 15 index points or < ± 15% of the measured value	



## TECHNICAL SPECIFICATIONS



#### LoRaWAN COMFORT SERENITY

Zone	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz	
Part number	ARF8373BRA	ARF8373JRA	ARF8373IRA	
Autonomy				
Expected Battery Life				
1 scan every 10 min.and 1 transmission per hour (24 frames per day). VOC sensor on, LEDs on	SF7: 10.7 years SF12: 9.8 years	SF7: 10.8 years SF12: 8 years	SF7: 10.7 years SF12: 7.3 years	
Radio/Wireless fea- tures				
LoRaWAN spec.	1.0.4			
Wireless Security	AES-128 data encryption			
Class	Class A			
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup			
Joining phase	Can be customised (number of attempts, time between attempts), remote join re-launch			
Network quality test	Performed automatically when the product starts up (via		-	
RF transmit power	+ 20 dBm	+ 14 dBm	+ 20 dBm	
Regulations and certifications				
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268	AS/NZS 4268	

#### Sigfox COMFORT SERENITY

Zone	RC2	RC4			
Part number	ARF8373DRA	ARF8373KRA			
Autonomy					
Expected Battery Life					
1 scan every 10 min. and 1 transmission per hour (24 frames per day)	7.8 years	7.8 years			
Radio/Wireless features					
Class		Class 0			
RF transmit power	+ 20 dBm	+ 14 dBm			
Regulations and certifications					
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268			