

adeunis

COMFORT CO2

Optimising comfort and ensuring the health of occupants



Additional features:

- User information: indicator light on the unit
- CO2 calibration: automatic or manual via button or downlink
- Data sending mode: periodic and/or on events
 Optimisation of autonomy: historisation
 - Data accessibility: redundancy
 - · Alarm repetition in case of persistent event
 - Error / fault management: configuration error, low battery
 - Data time-stamping (LoRaWAN)
 - Network quality test at start-up (LoRaWAN)



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.





LoRa Alliance Certified

LoRaWAN ARF8373AB	Sigfox ARF8373CB
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Mechanical specif	ications					
Weight		146 g (battery included)				
Dimensions		111 x 61 x 40 mm				
Enclosure		IP20, Bayblend® FR3010 (PC/ABS) plastique, blanc				
Mounting		Wall or laid flat				
Operating condition	ons					
Temperature		0°C / +50°C				
Humidity		0 to 85% RH (non-condensing)				
Device Power Sup	ply					
Battery Type		1 connectoriz	1 connectorized battery pack			
Device configurati	ion					
Local device configuration		IoT Configurator				
Remote device configuration		Downlink via the network or via the KARE platform or through 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: Class A Sigfox: Class 0				
Supported LoRaWAN features		OTAA, ABP, ADR, adaptive channel setup				
RF transmit power		14 dBm				
Sensitivity -		-136 dBm LoRaWAN @SF12 / <-120 dBm Sigfox				
Regulations and certifications						
Standard		Directive 2014/53/UE (RED)				
Humidity SENSOR		Temperature SENSOR CO2 concentration SENSOR				
Technology	CMOSens®	Technology	CMOSens®	Technology	NDIR	
Resolution type	0.01 %HR	Resolution type	+/- 0.015°C	Measurement range	400 - 5000 ppm	
Range	0 à 100 HR%	Range	-40°C / +125°C	Resolution	1 ppm	
Typical tolerance of RH over T°	Figure 1	Accurancy	Figure 3	Precision	+/- 30 ppm + 3% de la mesure	

Accuracy at 25°C Figure 2









Figure 3 Temperature accurancy

