

COMFORT

Optimize occupant comfort and energy performance in a building.



- 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,
 - event detected on the dry contact input.



Additional features:

- **4 in 1 product:** temperature, humidity, dry contact input, alarm button
- **Data transmission modes:** periodic and/or event-triggered
- **Data logging**
- **Accessibility of the data:** redundancy
- **Local and remote product configuration**



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



COMFORT

Current versions and associated part number

LoRaWAN	US902-928	ARF8275BRA
	AU915-928	ARF8275IRA
	AS923	ARF8275JRA
Sigfox	RC2	ARF8275DRA
	RC4	ARF8275KRA

General specifications

Weight	107g (battery included)
Dimensions	111 x 61 x 40 mm
Enclosure	IP20, Bayblend® FR3010 (PC/ABS) plastic, white (for indoor use)
Mounting	Wall
Battery Type	1 connectorized battery pack (4000 mAh)
Recommended operating conditions	+5°C / +50°C ; 0 to 85% RH (non-condensing)

Device configuration

Local device configuration	IoT Configurator (Windows/Android)
Remote device configuration	Downlink via the network or via the KARE platform
Security	PIN/PUK code protection

Features of integrated sensors

TEMPERATURE sensor

Sensor technology	CMOSens®
Range	-40°C / +120°C
Resolution (typ.)	0.01°C
Accuracy	± 0.2°C

HUMIDITY sensor

Sensor technology	CMOSens® sensor chip
Range	0 to 100 RH%
Resolution (typ.)	0.01% RH
Accuracy (typ.)	± 2% RH



TECHNICAL SPECIFICATIONS



LoRaWAN COMFORT

Zone	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz
Part number	ARF8275BRA	ARF8275JRA	ARF8275IRA
Autonomy			
Expected Battery Life 1 scan every 20 min. and 1 transmission per hour (24 frames per day)	SF7: > 15 years SF10: > 15 years	SF7: 10.4 years SF12: 9 years	SF7: > 15 years SF12: 11.3 years
Radio/Wireless features			
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 LEDs)	-	
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

Zone	RC2	RC4
Part number	ARF8275DRA	ARF8275KRA
Autonomy		
Expected Battery Life 1 scan every 20 min. and 1 transmission per hour (24 frames per day)	10.4 years	10.4 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

