

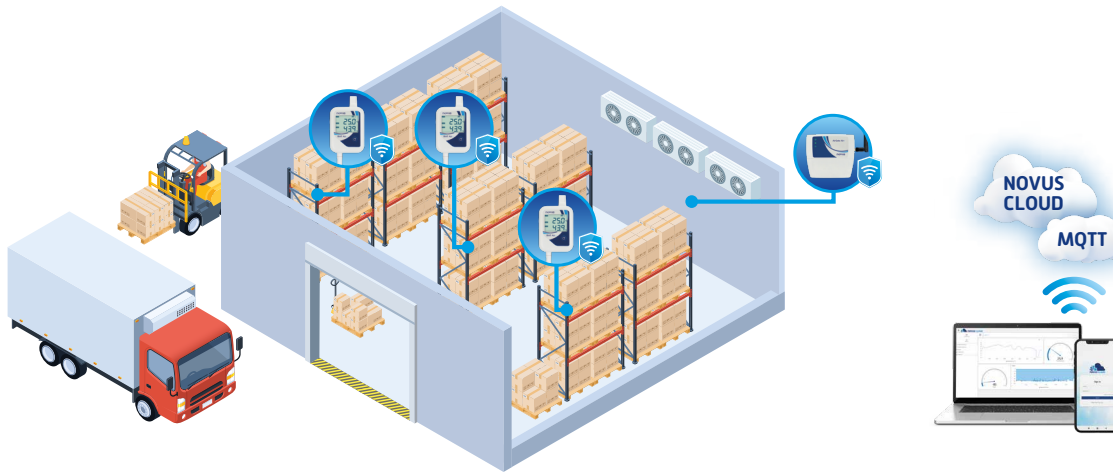


Environmental Monitoring

Climate Air+



Resilient coverage to maintain an uninterrupted data history



IIOT CONNECTIVITY

MQTT protocol with security



FLEXIBLE INTEGRATION

Compatible with industry-standard protocols



LONG BATTERY LIFE

Up to 2 years of operation



SECURE DATA MONITORING

Consistent data for precise decision-making



LONG-RANGE COMMUNICATION

Effective in environments with barriers



GUARANTEED COMPLIANCE

FDA CFR 21 Part 11 and GMP

- **Efficient communication: a single Airgate Air+ communicates with up to 32 RHT sensors**
- **Continuous and reliable monitoring for controlled environments**
- **Uninterrupted data recording with global reach**
- **Flexible integration, compatible with legacy systems**
- **Secure and low-maintenance communication for several applications**
- **Resilient connectivity, ideal for pharmaceutical warehouses and data centers**

Technical Specifications

RHT Air+					
TEMPERATURE MEASUREMENT	Range: -10 to 70 °C (14 to 158 °F) Resolution: 0.1 °C Accuracy: ± 0.2 °C				
RELATIVE HUMIDITY MEASUREMENT	Range: 0 to 100 % RH Resolution: 0.1 % RH Accuracy: ± 1.5 % RH				
MEMORY	Type	Circular			
	Capacity	15,000 logs (2 quantities) 50 days with a 5-minute recording interval			
RECORDING INTERVAL	2 to 720 minutes*				
COMMUNICATION INTERFACES	USB-C	For configuration, download and diagnostics.			
	LoRa	Models			
			915 MHz	868 MHz	865 MHz
		Frequency [MHz]	915.4~927.4	865.15~869.85	865.15~866.86
		Bandwidth [kHz]	500	250	250
		Spreading factor	7~11	7~12	7~12
		Transmission power [dBm]	20	14	20
Reception sensitivity	-136 dBm				
Radio coverage	Up to 3km with a clear line of sight**				
POWER SUPPLY	Non-rechargeable batteries	Up to 2 years (publication interval of 10 minutes, SF10 and power of 14dBm)			
	USB-C	It is recommended to use a 5 V ~ 1 A power supply (Do not use cables longer than 1.5 m)			
DISPLAY	2 lines, 4 digits				
PROTECTION INDEX	IP65, Sensor: IP40				
ENVIRONMENT	Operating temperature: -10 to 70 °C (14 to 158 °F)				
	Storage temperature: -20 to 70 °C (-4 to 158 °F)				
	Humidity: 5 to 95 % RH (Non-condensed)				
DIMENSIONS	70 mm x 175 mm x 45 mm				
HOUSING	Polycarbonate (V2 flame retardant)				
SOFTWARE	NXperience (via USB)				
	NXperience Trust (FDA 21 CFR part 11)				
CERTIFICATIONS	Anatel	07860-24-07089			
	FCC	Contains LoRA module, FCC ID: 2ADHKR34M			
	ISED	Contains LoRA module, IC: 20266-R34M[1]			

* The 915 MHz model can be configured with a log interval of 1 to 720 minutes, but it is recommended to use a log interval of 5 minutes or more. To increase performance, consider the maximum number of devices on the network in the ratio of 6 devices for each minute of logging interval.

**The communication distance decreases as the number of obstacles between the Gateway and the sensor increases.

[1]<https://ised-isde.canada.ca/site/spectrum-management-telecommunications/en/devices-and-equipment/radio-equipment-standards/radio-standards-specifications-rss/rss-gen-general-requirements-compliance-radio-apparatus#4.3> (itens 4.3, 8.4)

AirGate Air+					
MEMORY	Type	Circular			
	Capacity	480,000 logs (2 quantities)			
RECORDING INTERVAL	2 to 720 minutes*				
COMMUNICATION INTERFACES	USB-C	For configuration, download and diagnostics.			
	LoRa	Models			
			915 MHz	868 MHz	865 MHz
		Frequency [MHz]	915.4~927.4	865.15~869.85	865.15~866.86
		Bandwidth [kHz]	500	250	250
		Spreading factor	7~11	7~12	7~12
		Transmission power [dBm]	20	14	20
Reception sensitivity	-136 dBm				
Radio coverage	Up to 3km with a clear line of sight**				
Ethernet	10/100 Mb/s, IEEE standard 802.3u.				
Wi-Fi	IEEE standard 802.11 b/g/n 2.4G GHz. Support for WPA-Personal (PSK) WPA/WPA2 TKIP/AES/TKIP and AES encryption.				
PROTOCOLS	IP	SMTP, NTP, MQTT, and Modbus-TCP.			
POWER SUPPLY	External power supply	8~30 Vdc			
PROTECTION INDEX	IP20				
ENVIRONMENT	Operating temperature: -10 to 60 °C (14 to 140 °F)				
	Storage temperature: -20 to 70 °C (-4 to 158 °F)				
	Humidity: 5 to 95 % RH (Non-condensed)				
DIMENSIONS	220 mm x 180 mm x 38 mm				
HOUSING	ABS + PC				
SOFTWARE	NXperience (via USB)				
	NXperience Trust (FDA 21 CFR parte 11)				
CERTIFICATIONS	Anatel	07859-24-07089			
	FCC	Contains Wi-Fi module, FCC ID: 2AC7Z-ESPWROOM32D			
		Contains LoRA module, FCC ID: 2ADHKR34M			
	ISED	Contains Wi-Fi module, IC: 21098-ESPWROOM32D[1] Contains LoRA module, IC: 20266-R34M			

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**The communication distance decreases as the number of obstacles between the Gateway and the sensor increases.

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