

Wireless Temperature and Humidity Transmitter



RHT-Air

- ✓ **Long Range** measurement
- ✓ IT independent **wireless** network
- ✓ Large battery **life autonomy**
- ✓ Easy **network scalability**
- ✓ Noise **immunity**

RHT-Air is a fully wireless solution for measuring temperature and humidity over long distances, allowing the configuration and reading of the parameters through the wireless network up to 1 km, bringing practicality and efficiency to the application.

It has long battery life - which can operate as a no break - combined with the convenience of a wireless sensor that avoids the absorption of electrical noise, ensuring a robust and safe solution.

Operation without cables and wires simplifies the installation. In addition to the ease of reallocation of the devices, it is possible to extend the telemetry network extremely easily: simply attach the new sensor where necessary and configure it from a distance!

Moreover, RHT-Air operates on its own wireless network, without the need to use the company's IT infrastructure, allowing its stand-alone operation.

APPLICATION



Pharmaceutical



Data Centers



Distribution Centers



Airports

TECHNICAL SPECIFICATIONS

Measurement Range	Temperature: -40 °C to 100 °C / -40 °F to 212 °F	Humidity: 0 to 100% RH
Measurement Accuracy	Temperature: ± 2 °C / ± 3.6 °F	RH: $\pm 3\%$ (20-80 °C / 68-176 °F) and $\pm 5\%$ (0-100 °C / 32-212 °F)
Measurement Resolution	Temperature: 0,1 °C / 0,1 °F (14 bits - 16383 levels)	Humidity: 0,1% (12 bits - 4095 levels)
Interval between Updates	Configurable between 15 seconds and 10 minutes (600 s)	
Response Time	Temperature: 30 sec (air speed 1 m/s)	Humidity: 8 sec (air speed 1 m/s)
Display	LCD with 2 indications	
Advanced Functions	Battery Level Dew Point Indication and Retransmission	
Communication Interface	NOVUS Air (IEEE 802.15.4)	
Power Supply	12-30 Vdc of 3,6 V Lithium Battery (OmniCel, ER14250HD model)	
Estimated Battery Life	Typical 2 years - 10 minutes update interval @ 25 °C	
Dimensions	Box: 70 x 60 x 35 mm / 2.76 x 2.36 x 1.38 in Probe size: 39 mm / 1.54 in Antenna size: 105 mm / 4.13 in	
Operating Conditions	-10°C to 70°C / 14 °F to 158 °F 0 to 95% RH	
Enclosure	Material Polycarbonate IP40	
USB Configuration	Internal Micro-B Type	
Configuration Software	DigiConfig	
Certifications	CE ANATEL (0172-13-7089) FCC	
Electromagnetic Compatibility	EMC: EN61326-1:2006 CISPR11/EN55011 EN61000-4-2, EN61000-4-3, EN 61000-4-4, EN 61000-4-6, EN61000-4-8	

TOPOLOGY



LONG DISTANCE APPLICATION

