

AIRNEXUS WIRELESS SENSOR (ANX-SEN-WL)

General

The Airnexus Wireless Sensor Expansion enhances your HVAC system with seamless integration of Zigbee-based Airnexus wireless sensors. Engineered for environments where precision, flexibility, and rapid deployment are essential, this module transforms how temperature, humidity, and pressure are monitored across zones.

- **Seamless Wireless Integration:** Compatible with Zigbee-based sensors for cable-free installation across all zones.
- **Advanced Environmental Sensing:** Monitors temperature, humidity, and pressure in real-time for total HVAC awareness.
- **Scalable Architecture:** Supports wireless sensors in a mesh network, perfect for residential, commercial, or industrial-scale zoning.
- **Plug-and-Play Setup:** Quick pairing and intuitive configuration reduce install time and complexity.
- **Live Monitoring & Alerts:** Real-time data reporting allows for immediate detection of anomalies and fluctuations.
- **Energy Optimization:** Maintains ideal temperature and humidity, enhancing comfort while lowering energy costs.



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Installation

The Airnexus wireless temperature, humidity, and pressure sensor is battery-powered and designed for quick, cable-free installation. It pairs directly with the Airnexus app via Zigbee and includes a cradle for simple wall mounting.

Step-by-Step Installation Guide

What's in the Box

- 1 × Zigbee Sensor (WSDCGQ11LM)
- 1 × Mounting Cradle
- 1 × Adhesive Sticker
- 1 × CR2032 Battery (pre-installed)
- 1 × Quick Start Guide

Mounting the Sensor

Choose a Suitable Location:

Mount the sensor on an interior wall about 1.5 meters above floor level.

Avoid direct sunlight, air vents, or humid areas like bathrooms.

Ensure the location is within wireless range of your Airnexus controller.

Mount the Cradle:

Peel off the adhesive backing and press the cradle firmly onto the wall.

Optional: Use screws for a more permanent installation (holes are built into the cradle).

Install the Sensor:

Align the sensor with the cradle and press it in until it clicks into place.

The sensor can be removed and reattached at any time for battery replacement.

Powering and Activating the Sensor

The sensor comes with a CR2032 battery pre-installed.

To activate pairing mode:

If the battery has a protective tab, remove it.

If already installed, remove and reinsert the battery to reset the sensor.

The LED will blink once, indicating the sensor is ready to pair.

Pairing with the Airnexus App

Open the Airnexus app on your smartphone or tablet.

Navigate to:

Settings > Wireless Sensors > Add Sensor

Tap “Scan for Devices.”

Wait for the app to detect the sensor. It should appear as a new Zigbee device.

Tap “Pair”, then assign it to a zone or room.

Once paired, the sensor will begin reporting temperature, humidity, and pressure in real time.

Troubleshooting Pairing Issues

Ensure the sensor is within range of the Zigbee coordinator.

If the sensor doesn't appear, try reinserting the battery to restart pairing mode.

Check that Zigbee pairing mode is enabled in the Airnexus app.

Weak battery? Replace it with a new CR2032.

Specifications

Specifications Table	
Voltage	CR2032 Battery
Operating Temperature Range	-5°C ... +55°C
Weight	10g
Plastic	ABS
Standard	IEEE802.3
Processor	Zigbee
Features	Temperature Range and Precision -20°C~+50°C, $\pm 0.3^{\circ}\text{C}$ (-4°F~+122°F, $\pm 0.5^{\circ}\text{F}$) Humidity Range and Precision 0 – 100% RH (non-condensing), $\pm 3\%$
Dimensions	36 × 36 × 9 mm (1.42 × 1.42 × 0.35 in.)
Installation	DIN-rail