1. UNPACKING THE PHYSICAL SENSOR

Examine the sensor chassis for damage. If you find damage, contact Nozomi Networks support at:
support@nozominetworks.com

Box contents:

- Nozomi Networks WS20 Wireless Sensor
- Wall/ceiling support mount
- External power supply
- Power over Ethernet (PoE) splitter
- GPS antenna
- Pairing QR code

2. SETUP PRECAUTIONS AND CONSIDERATIONS

⚠ **WARNING**: Before you do the procedures that follow, make sure that you disconnect AC and DC power.

⚠ **WARNING**: Before you connect the sensor to its power source, make sure that you have read the installation instructions.

⚠ **WARNING**: Do not use water, or other liquids to clean the sensor. Only use a clean, dry cloth.

⚠ **WARNING**: If different from the one provided, the power source must be LPS/PS2 rated 12VDC 3A maximum.

⚠ **CAUTION**: The sensor has been tested and found to comply with the limits for a Class A device. If the sensor is used in a residential environment, it might cause radio interference. In this case, you might have to take appropriate action.

⚠ **CAUTION**: To prevent the sensor from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature. (See below.)

| Operating Environment	Temperature: **-20°C - +50°C** Humidity: **10% - 90%**
Storage Environment	Temperature: **-40°C - +85°C** Humidity: **5% - 90%**

3. HARDWARE OVERVIEW
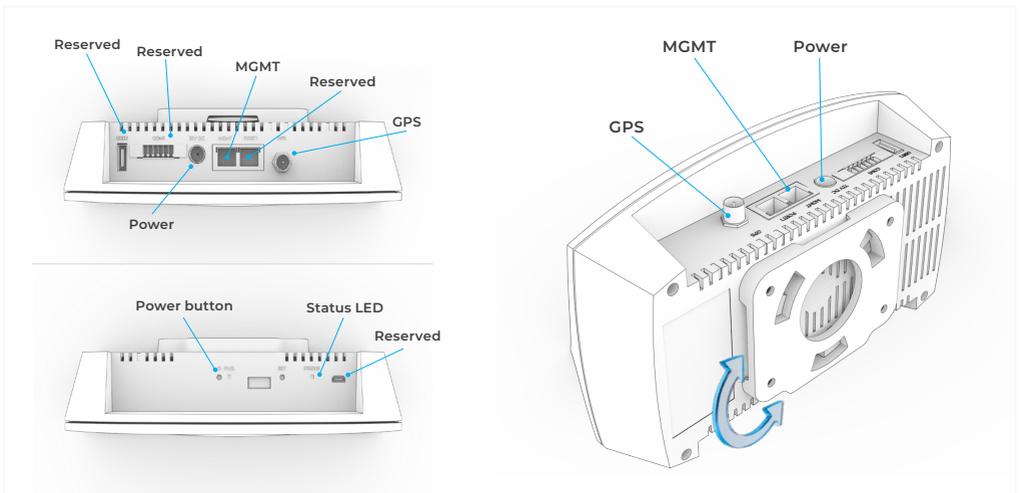
4. FIRST CONNECTION TO VANTAGE

1. There are two possibilities to connect the sensor:
   - With a **PoE** compatible switch: connect an Ethernet cable to the PoE splitter. Connect the PoE power connector into the power plug. Connect the Ethernet cable into the **MGMT** port.
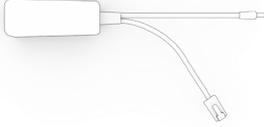
   - Without **PoE:** connect the provided external power supply to the power plug and a standard Ethernet cable to the **MGMT** port**.**

2. The ethernet cable must be connected to a network with DHCP enabled, and firewall rules/policies need to allow connectivity to:
   - **https://*.guardianair.nozominetworks.io**
   - Your Vantage instance URL

3. Status LED meaning:
   - **Fixed yellow**: the sensor has not obtained an IP address, check your DHCP server.
   - **Flashes yellow**: the sensor has obtained an IP address, but it is not able to connect to Nozomi Networks services, check your firewall.
   - **Flashes green**: the sensor is ready to be connected to Vantage.
   - **Fixed green**: the sensor is operating correctly.

4. Go to your Vantage instance and select the most appropriate organization.

5. Add your sensor from the Vantage's **Sensors** page.

6. Select the **Guardian Air** sensor type.

7. Allow Vantage to access your camera to scan the **pairing QR** code that you will find at the bottom of the page. The same QR code can be found at the bottom of the sensor.

8. Follow the steps and select a Site and a Network Domain.

9. Wait until the Status LED indicator changes to fixed green and Vantage reports success (the process can take a few minutes).

5. WALL OR CEILING MOUNTING

1. Once connectivity to Vantage has been confirmed, press the power button to set the sensor to off.

2. To install it on a wall or ceiling, you first need to attach the support mount. Use four screws (⌀ 4 mm, minimum length 30 mm), that are suitable for the material of the wall or ceiling.

3. Once mounted, turn the sensor mount until locks in position.

4. Connect to the desired power source and network as documented in the section 4.1. The unit will power on automatically.

5. If possible, connect the GPS antenna to an outside location, or as close as possible to a window.

6. If the Status LED indicator does not change to fixed green again, follow the guidelines in the previous section.

Pairing QR

If you need any support visit: **https://www.nozominetworks.com/support**

nozominetworks.com