NetBotz™ Wireless Environmental Sensors

Wireless sensors for the Data Center and remote locations

NetBotz wireless temperature and humidity environmental sensors offer a complete view of an environment while eliminating the need for wires. With a 3-5 year battery life and multiple mounting options, the sensors snap securely to IT enclosures in the Data Center, network closet, or any space requiring environmental visibility.

The compact and affordable sensors feature a 2D bar code for quick & easy network configuration & identification, and user replaceable batteries. Up to 47 sensors can be deployed as part of a single network and can be combined with the NetBotz Wireless Sensor Pod 180. NetBotz wireless sensors use secure ZigbeePro® 2.4 GHz wireless technology which has been optimized to operate alongside other wireless networks without interruption.

- 3 to 5 years of expected battery life
- Robust security algorithm protects against efforts to disrupt communication
- 2D QR code scan simplifies deployment and commissioning
- Integrates with select NetBotz appliances

Features

- User-replaceable lithium batteries
- Long battery life
- Status indicator LED
- Tool-less rack-mount installation
- Over-the-air firmware upgrades
- Secure 2-way communication
- Temperature & Temp/Humidity Sensors NBWS100T, NBWS100H
- ZigbeePro® mesh-network technology
- Integrates with current-generation NetBotz 400 and 500 appliances*
NetBotz™
Wireless Environmental Sensors

Simplified IT equipment protection

1. Integrated temperature & humidity sensor
2. User replaceable coin cell battery
3. LED indicator provides sensor status at a glance
4. QR code for fast easy commissioning and sensor identification
5. Embedded magnets securely mount sensors to IT cabinets
6. Additional mounting options included
7. On/Off switch conserves battery life

StruxureWare for Data Centers
An integrated suite of management software applications for balancing the demands of availability and efficiency throughout the data center lifecycle. NetBotz serves as the real-time data supplier to optimize StruxureWare software.

DCIM solution benefits
> A holistic DCIM suite managing all aspects of the data center
> Leverages and optimizes the existing infrastructure
> Provides robust, scalable and integrated software solutions
## Specifications

### NetBotz Wireless Environmental Sensors

<table>
<thead>
<tr>
<th>Product SKUS</th>
<th>NBWS100T, NBWS100H</th>
</tr>
</thead>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage, nominal</td>
<td>3V battery, CR2477 non-rechargeable primary cell</td>
</tr>
<tr>
<td>Maximum total current draw</td>
<td>33mA USB</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>2405.0 to 2480.0 MHz</td>
</tr>
<tr>
<td>Number of Channels</td>
<td>16</td>
</tr>
<tr>
<td>Operating Modes</td>
<td>Tx &amp; Rx</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>Integral</td>
</tr>
</tbody>
</table>

### Physical

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>38.0 x 38.0 x 19.8 mm (1.5 x 1.5 x 0.78 in)</td>
</tr>
<tr>
<td>Shipping Dimensions (H x W x D)</td>
<td>230.0 x 165.0 x 48.0 mm (9.0 x 6.5 x 2.0 in)</td>
</tr>
<tr>
<td>Weight with batteries</td>
<td>0.03kg (0.07 lb)</td>
</tr>
<tr>
<td>Weight with batteries &amp; mounting bracket</td>
<td>0.05kg (0.11 lb)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>0.18 kg (0.4 lb)</td>
</tr>
</tbody>
</table>

### Compliance


### Internal Sensors

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Sensor</td>
<td>0 to 45°C (32 to 113°F)</td>
</tr>
<tr>
<td>Humidity Sensor</td>
<td>0 to 95%, non-condensing</td>
</tr>
</tbody>
</table>
NetBotz Wireless Temperature & Humidity Sensor

- Small, low cost environmental sensors
- Multiple mounting options allow deployment in virtually any environment

SKU: NBWS100T (Temp only)
SKU: NBWS100H (Temp/Humidity)

NetBotz Wireless Sensor Pod 180

- Built-in temperature and humidity sensors measure environmental conditions
- Tool-less mounting pegs allow for quick attachment to the inside face of an APC SX rack door
- Three RJ45 ports support additional temperature/humidity and door contact sensors

SKU: NBPD0180

NetBotz Wireless USB Coordinator & Router

- Functions as a wireless sensor receiver by plugging into select NetBotz appliances
- Can also plug into included power supply to act as a range extender for the sensor network

SKU: NBWC100U
1 NBWC100U required per sensor network