

## PRODUCT OVERVIEW

arbn well is an environmental quality measurement and analysis system based on high-quality, low-cost sensing. It comprises a dense network of sensors measuring a variety of parameters affecting human health and comfort. This continuous and ubiquitous sensing is supplemented by occupant feedback (collected using the arbn well app), to create a uniquely rich and detailed picture of environmental conditions inside buildings and the satisfaction of occupants. Based on the needs of a client, three devices are available: Comfort, AQ, and AQ+. All three of these devices communicate data to a gateway device.

For more information, go to [www.arbnco.com/arbn-well](http://www.arbnco.com/arbn-well) or write to us as [info@arbnco.com](mailto:info@arbnco.com).

## APPLICATIONS

The arbn well system can be used in several applications including:

- Commercial (offices, conference rooms)
- Education (classrooms, auditoria, offices)
- Government (offices, conference rooms)
- Healthcare (wards, offices, common areas)
- Residential (bedrooms, living spaces)
- Urban farming (non-condensing applications)

**Each application does not necessarily require each device, but all applications require a gateway.**

## GATEWAY FEATURES

- LoRaWAN protocol supported
- Uart interface
- AES128 encryption
- 8 channel communication simultaneously
- Configurable parameters
- GPS support
- Long range

<b>GENERAL</b>	
<b>MOUNTING</b>	Command Brand® Damage-Free Hanging Strips; 5 strips per gateway
<b>DIMENSIONS</b>	145x95x40mm
<b>WEIGHT</b>	715g
<b>OPERATING/STORAGE TEMPERATURE</b>	-40-75 °C
<b>WARRANTY</b>	Standard warranty of 1 year for factory defects
<b>CERTIFICATIONS</b>	CE, FCC
<b>ELECTRICAL</b>	
<b>POWER SOURCE</b>	PoE+ 48 Input, IEEE 802.3 af/at
<b>VOLTAGE RANGE</b>	42.5-57V
<b>POWER RANGE</b>	25.5-34.2W
<b>COMMUNICATIONS</b>	
<b>Sub-GHz (LoRa)</b>	Supported channels: US902-928, EU863-870, AS923, AU915-928, KR920-923, CN470-780
<b>Other communication capabilities</b>	Wi-Fi and Ethernet