



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+.

For more information, go to www.arbnco.com/arbn-well or write to us as 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. The AQ device described in this sheet measures: Temperature, Humidity, and CO₂.

TEMPERATURE MEASUREMENTS

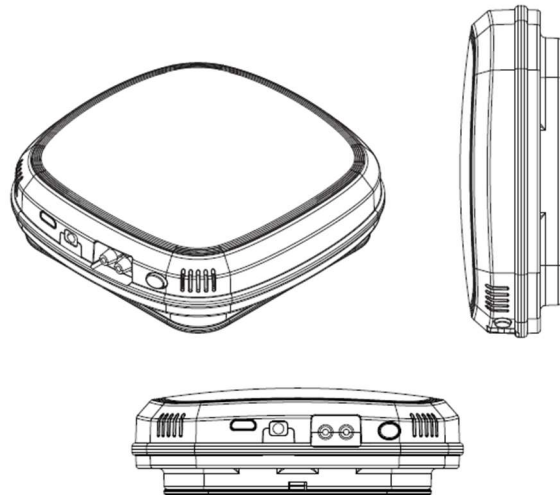
- **Accuracy:** 0.2 °C
- **Resolution:** 0.01 °C
- **Range:** -40 – 125 °C

RELATIVE HUMIDITY MEASUREMENTS

- **Accuracy:** 2 %
- **Resolution:** 0.01 %
- **Range:** 0 – 100 %

CO₂ MEASUREMENTS

- **Accuracy:** 50 ppm, at 0 – 50 °C
- **Range:** 0 – 5000 ppm



GENERAL	
MOUNTING	Command Brand® Damage-Free Hanging Strips; 2 strips per sensor
DIMENSIONS	112x112x35mm
WEIGHT	205g
OPERATING/STORAGE TEMPERATURE	-10-70 °C
OPERATING/STORAGE HUMIDITY	0-95 % (RH), non-condensing
SENSOR/DEVICE LIFETIME	Approx. 5 years. Deployment in high contamination environments will significantly shorten the lifespan of the humidity and CO2 sensors, and potentially the circuits.
WARRANTY	Standard warranty of 1 year for factory defects
CERTIFICATIONS	CE, FCC
SENSORS	
TEMPERATURE and RELATIVE HUMIDITY	Sensirion SHT30-DIS-B
CO₂	GSS CoziR-IP (NDIR-type)
ELECTRICAL	
POWER SOURCE	ER26500 battery; approx. 3-year lifespan.
VOLTAGE	3.6V
BATTERY CAPACITY	30.6Wh
COMMUNICATIONS	
Sub-GHz (LoRa)	Supported channels: US902-928, EU863-870, AS923, AU915-928, KR920-923, CN470-780