RESPIRR (Respiratory Irritant, Air Quality) Sensor

The wireless-based RESPIRR detector detects air irritants that can cause ear, eyes, and throat irritation. Once the air with an irritant's presence is detected, it sends the data wirelessly (via BLE Mesh) to the IoT Gateway. The IoT Gateway sends the data to the cloud platform.

Application:

- **Poor Air Quality Detection**
- **Indoor Air Monitoring**
- **Air Purification Control**
- **Smart Facilities**
- **HVAC Ventilation Control**
- **Manufacturing**
- **Construction**
- **Oil & Gas**
- **Mining**
- **Warehousing & Supply-chain Management**

Description	Respiratory Irritant Quality Detector Sensor (BLE)
Model No.	RESPIRR Sensor
BLE Mesh Network	Connects to our BLE Mesh Network, eliminating the need for IT Infrastructure.
Measurement Range	0 to 20 ppm
Resolution	20 ppb
Accuracy	15% of reading
Expected Operating Life	> 5 years (10 years @ 25± 10C; 60 ± 30% RH)
Operating Temperature Range	-20 to 40 °C (-30 to 55 °C intermittent)
Operating Humidity Range	15 to 95% (0 to 100% non-condensing intermittent)
Size (LxWxH)	100x70x50 mm 3.94x2.76x1.97 in
Power Source	110-240 VAC (50-60 Hz)
Transmission Power Output	100m (+4dbm)
Color	White
Material	ABS
Attachment Method	Screw, Adhesive, Cable Tie