

## Senspuck Pure SPU20

Senspuck Pure is a LoRaWAN Indoor Air Quality sensor. It is designed to operate autonomously without maintenance due to integrated solar PV cell. It is suitable for wide variety of indoor applications where accurate data reading are needed.



### Key features

- Accurate readings
- No maintenance
- Easy installation

### Applications

- Indoor air quality
- Occupancy control
- Virus free environments

## Technical specification



### Enclosure

Weight	60g
Dimensions	Fi 85mm x 26mm
Materials	Biodegradable and recycled plastic

### Operating conditions

Temperature	0°C to +50°C
Humidity	0 to 100% RH

### Power supply

Power Supply type	Solar PV Cell
Expected operation	15+ years

### Configuration

Sending interval	12 minutes
Data upload interval	Configuration via Downlink packet

## Connectivity

Wireless Technology	LoRaWAN® 1.0.3
Wireless Security	LoRaWAN® End-to-End encryption (AES-CTR), Data Integrity Protection (AES-CMAC)
LoRaWAN Device Type	Class A - End-device
Supported regions	US902-928, EU863-870, AS920-923, AU915-928
Link Budget	137dB (SF7) to 151dB (SF12)
RF Transmit Power	14dBm (Region specific)

## Sensors

### CO2

Range	400 to 5000ppm
Accuracy	±30ppm

### TVOC

Range	0 to 10mg/m <sup>3</sup>
Accuracy	±0.5mg/m <sup>3</sup>

### Temperature

Range	-20 to +85°C
Accuracy	±0.2°C

### Relative Humidity

Range	0 to 100%
Accuracy	±1.8%

### Air Pressure

Range	300 to 1200hPa
Accuracy (absolute)	±1hPa