

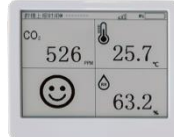
WxS881x-423071_(x:1~4)

LoRaWAN 3-in-1 IAQ Smart Sensor Terminal

Product Highlights

- ❖ LoRaWAN 1.0.4 Compliance
- ❖ **iEdge 4.0 OS:** Powered SW-defined sensors and controllers HW platform
- ❖ **LoRaWAN 1.0.4 Compliance:** Supports Class A and C operation, configurable via software
- ❖ **Power supply** Battery powered (ER18505M/ER18505H or Rechargeable 18650)
- ❖ **Ultra-low power design, with a battery life of up to 10 years**
- ❖ **Temperature range:** - 40 °C ~ 125 °C
- ❖ **Humidity range:** 0~100% RH
- ❖ **CO2 range:** 0-5000ppm
- ❖ **Open architecture: modular and configurable BYOD (Build-Your-Own-Devices) features supported, expandable** with PSS-21Rxxx or PSS-Rxxxxx product series; gas types include: TVOC, CO, H2S, H2, O2, NO2, hydrogen cyanide HCN, SO2, formaldehyde HCHO, NH3, CL2, CH4S, CLO2, HF, Br2, F2, ethylene oxide ETO/c2h40, PH3, smoke, odor OU, etc
- ❖ **Antenna:** Integrated internal antenna
- ❖ **Configuration and Management**
 - **ConfigurationTool Software (PC-based) for:**
 - Terminal and sensors firmware/driver updates
 - Configuration of LoRaWan parameters (Class A/C, regional sub-bands, uplink cycle)
 - Sensor Parameters Configuration and reading
 - Data report Cycle and threshold configuration
 - **OTA and FOTA features:**
 - FOTA (Firmware Over The Air): update terminal firmware (OS loader and application images)
 - OTA (Over The Air): configure terminal and sensor parameters configurable
- ❖ Optional (Public/Private) IoT cloud platform PolySuite iView and LoRaWAN network iServer

Product parameters

Parameters				
Product number	WxS8811-423071	WxS8812-423071	WxS8813-423071	WxS8814-423071
Product picture				
Power	ER18505H/M*2	Rechargeable 18650*2	ER18505H/M*2	Rechargeable 18650*2
Display	/	/	4.2" E-Ink Display	4.2" E-Ink Display

Measuring range	Temperature: - 40 °C ~ 125 °C Humidity: 0~100% RH CO2: 0-5000ppm	
Accuracy	Temperature: 0 ~ 65 °C, ± 0.2 °C; Other, ± 0.6 °C Humidity: 10~90%, ± 2% RH; Other, ± 4% RH CO2: ± (50ppm+5% reading) at 25 °C ± 2 °C	
Resolution	Temperature: 0.01 °C Humidity: 0.01%RH	
Response time	Temperature: >2s (T63%) Humidity: 8 ^s	
Long term drift	Temperature: <0.03 °C/yr Humidity: <0.25% RH/yr	
Size	100mm*86mm*28mm	
Working conditions	- 10~50 °C; Below 0~95% RH (non condensing)	0 °C ~ 50 °C (with E-ink Display)
Storage conditions	- 30~60 °C; Below 0~95% RH (non condensing)	0 °C ~ 30 °C (with E-ink Display)
IP Grade	IP30	

Wireless

ISM Regional Parameters	AS923 (AS923-1, AS923-2, AS923-3, AS923-4) AU915 CN470 CN779 EU433 EU868 IN865 KR920 RU864 US915	
Maximum Link Budget	168dB	
Distance	Up to 5km in NLOS; up to 18km in LOS	
Antenna	Integrated internal antenna or external 1/2 wavelength whip antenna (SMA)	

Compliance/Certification

 LoRa Alliance	LoRaWAN 1.0.4 Class A/C	
Regulatory	FCC(America): 2BFC5-WXS8810, CE(European Union): LCSA02254111E ROHS(European Union): LCSA02264107R	

Installation Guide

Can be fixed to the wall using screws, 3M adhesive, or magnetic suction, suitable for indoor scenes.

Application location

Widely used in smart wearables, electronic thermometers, temperature detection, medical electronics, cold chain logistics, etc.