

AirSmart Solar Max

Solar-powered air quality monitor for schools, businesses and community spaces. No cables, no Wi-Fi, no charging.

🌡️ Temperature

💧 Humidity

⚙️ CO₂

💡 Lighting

🔊 Sound Level



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Overview

AirSmart Solar Max runs on indoor light. Advanced perovskite solar cells keep its battery topped up, so it is designed never to need recharging: no cables to run, no batteries to swap and nothing to charge.

It connects over the cellular network with its own global SIM, so there is no Wi-Fi setup, no passwords and nothing on your network for IT to secure. Its large 800 × 480 e-paper display is readable in bright daylight, so everyone in the room can see the air quality at a glance.

Installation

Installing your AirSmart Solar Max takes a few minutes. No cables, no Wi-Fi setup.

- ① Mount the wall plate
- ② Slot the monitor onto the plate
- ③ Scan the QR code to register it

Use the screw template supplied with the wall plate. Registration is done in the AirSmart Installer app.

Accuracy

 Temperature ¹ ± 0.2 °C	 Humidity ± 2 %	 CO ₂ ² ± 50 ppm ± 3 %
 Lighting ³ ± 20 %	 Sound Level ⁴ ± 1 dBA	

Specs

Dimensions	19.6 cm × 14.7 cm × 1.9 cm
Display	800 × 480 monochrome e-paper
Power	Indoor perovskite solar, NiMH battery (2,500 mAh), optional USB-C boost charge
Connectivity	LTE-M / NB-IoT cellular, global SIM included
Security	TLS / DTLS, hardware-backed key storage
Cloud Reporting Interval	Every 15 minutes
Operating Range	0 to 50 °C, 0 to 85 %RH

¹ Sensirion SHT30 typical figures: temperature ±0.2 °C, humidity ±2 %RH.
² Senseair Sunlight datasheet 006-1-0100: CO₂ ±50 ppm ±3 % of reading, 400 to 5,000 ppm.
³ ams TSL2572 datasheet, page 8: output under a fixed white light 4,000 to 6,000 counts (typical 5,000), a spread of ±20 %. The datasheet states no lux accuracy.
⁴ TDK ICS-43434 microphone, sensitivity tolerance ±1 dB.

Benefits

- Designed never to need recharging: indoor solar keeps the battery topped up
- No cables, no battery swaps and no charging, so it needs no attention once installed
- Works from day one on the cellular network, with no Wi-Fi provisioning, passwords or LAN security issues
- Zero-touch install almost anywhere, ideal where an outside installer fits the monitors
- A large display readable across the room, sized for classrooms, offices and community spaces

Features

-  Large 800 × 480 e-paper display, readable in daylight
-  Indoor solar power, designed never to need recharging
-  Cellular with a global SIM, no Wi-Fi needed
-  Zero-touch install: scan the QR code and go
-  Real-time data for CO₂, temperature, humidity, lighting & sound
-  Mobile app for data access anywhere
-  Web portal with reporting
-  Customisable notifications