

BACnet Indoor Air Quality Monitor

UNOlite

Model: UNO-LWD

Delta P/N: DSUBDE-UNO-0007

- Monitoring 7 key factors: particulate matter (PM1, PM2.5, PM10), volatile organic compounds (VOCs), carbon dioxide (CO_2), humidity, and temperature
- Get current air quality indicators from the color-coded LED, and easily get more insights about air quality by using the UNO IAQ APP (iOS, Android) at any time
- RESET Air Accredited Monitor
- This product is aligned with the WELL Building Standards™

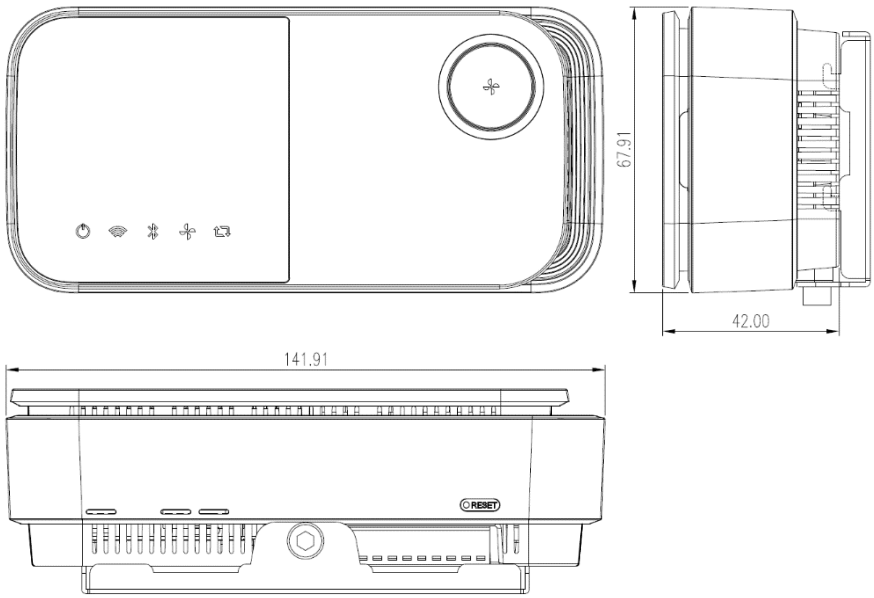
System Specifications

Operating Condition	0°C to 50°C, 10-90%RH
Power	source 1: 12-24VDC, 24VAC (Full-wave*) source 2: power adapter 12V/1A 6W max. (12VDC)
Installation	Drywall mount, Electrical box mount
Accessory	Two types of wall bracket for EU Single- Gang (Horizontal) and CN 86 BOX
Weight	188g
Warranty	1 year

Sensor Specifications

Protocol Output	Protocol	Modubs RTU or BACnet MS/TP (Switch via DIP)
	Connection	2-wire RS-485 no isolation
	Data Rate	Default: 9600 Selectable via Modbus: 9600, 19200, 38400, 57600, 76800, 115200
	Address Range	208-239 (Switch via DIP)
Wireless Connectivity	Wi-Fi	2.4GHz 802.11 bgn
	Bluetooth	Bluetooth low energy v5.1
CO_2	Type	Acoustic Non-dispersive Infrared (NDIR)
	Accuracy	±50ppm +5% of reading (over 400ppm to 5000ppm)
	Resolution	1ppm
	Range	400-5000ppm
	Sample rate	Default: 10s
Relative Humidity	Type	Digital CMOS
	Accuracy	±10%RH (Adding a LOYBT-TEMP1 sensor can achieve ±4%RH) (over 10-90%RH)
	Resolution	1%RH
	Sample rate	Default: 1s, LOYBT-TEMP1: 5minutes
	Operating range	5-95 %RH
Temperature	Type	Digital CMOS
	Accuracy	±1°C (Adding a LOYBT-TEMP1 sensor can achieve ±0.2°C) (over 10-40°C)
	Resolution	0.1°C
	Range	10-40°C (50-100°F)
	Sample rate	Default: 1s, LOYBT-TEMP1: 5minutes
TVOC	Type	Metal oxide semiconductor
	Gas	Total VOC
	Accuracy	±20μg/m³ +15% of reading (over 1-500μg/m³) in Lab. test by Ethanol
	Resolution	1μg/m³
	Range	1-2000μg/m³
	Response time	1s
	Sample rate	1s
	Output	1-6500μg/m³
PMx	Type	Optical
	Size Range	PM1.0, PM2.5, PM10
	Scale	1-1000μg/m³
	Resolution	1μg/m³
	Lower detection limit	0.3μm
	Sample rate	Default: 10s
	Precision	±5μg/m³ +20% of reading (over 1-100μg/m³ range) ±25% of reading (over 101-500μg/m³ range)

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Compliance	Agency Accreditations	RoHS, NCC, FCC/ICES, SRRC, JRF RESET Air Accredited Monitor
	Standards	This product is aligned with the WELL Building Standard™. Facilitates compliance with ASHRAE 62.1 standard for air quality Contributes toward satisfying Feature A08 under WELL Building Standards®
Dimensions	14.2cm (L) x 6.8cm (W) x 4.2cm (D) 	
Warning	**Wiring Precautions** This product employs full-wave rectification. When operating in a 24 VAC environment and connected to the same RS-485 bus as devices that use half-wave rectification, it is necessary to power this product from an independent power supply. Failure to do so **will result in communication abnormalities and may cause permanent damage to the devices or transformers.**	
Remarks	Product performance can be influenced by both installation and environmental factors. Recommend adhering to the installation guide to ensure optimal results.	

2026/09

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