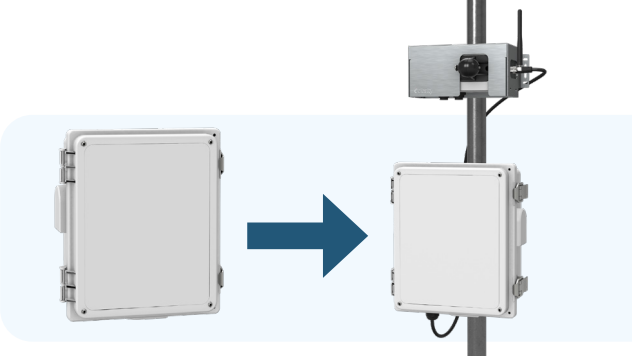
clarity

Ozone Module Technical Specifications



AIR QUALITY MEASUREMENTS

PARAMETER	TECHNOLOGY	RANGE	PERFORMANCE
FEM-Grade Ozone Concentration (ppb)	UV Absorption at 254 nm, single beam	Range: 0-500 ppb Resolution: 0.1 ppb	< 75 ppb: 1.5 ppb >= 75 ppb: 2% of measured value

Additional Ozone Module Parameters: Atmospheric Pressure (torr, mbar, psi) | Ambient Temperature (°C, °F, K)

DATA FLOW

Measurement Frequency (Adjustable)	- Default: Once every 15 minutes - Sampling synchronized with Node-S to occur simultaneously with other measurements; **see Node-S specifications for details**
Data Retrieval from Cloud	- Clarity Dashboard (Web App) - RESTful APIs (Programmatic Access)
Device to Cloud Communication	Connectivity provided by Clarity Node-S (SIM card and service included)

OPERATING CONDITIONS

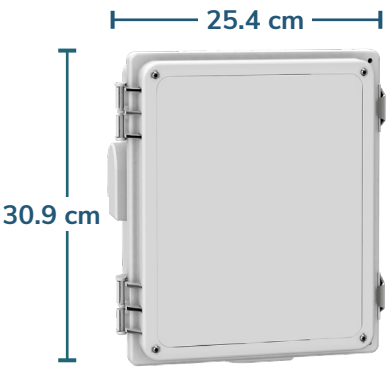
Operating temperature	0 – 50° C (20 – 30° C for FEM)
Flow Rate Limits (volumetric)	Minimum: 0.6 Liter/min; Nominal: 1 Liter/min; Maximum: 1.5 Liter/min
Temperature and pressure corrected	Yes
Calibration	**NIST traceable, annual recalibration recommended**

POWER

Externally Powered	- Ozone Module is powered through Node-S - Companion Node-S requires external power when paired with Ozone Module.
Power Requirements	11-28 VDC Nominally 165 mA at 12 V; 2.0 watt

DIMENSIONS

Dimensions	30.9 cm (H) × 25.4 cm (W) × 13.3 cm (D)
Weight	6.9 lb (3.13 kg)



MOUNTING & DEPLOYMENT

Connect to Node	Plug module into Clarity Node-S; Node-S will reset and automatically recognize the module
Sensor Siting	Install sensor in an open area with unobstructed air flow where ambient O_3 concentration can be evaluated
Mounting	Use a mounting bracket to affix to a pole or another secure foundation