clarity

Ozone Module Technical Specifications

AIR QUALITY MEASUREMENTS

PARAMETER	TECHNOLOGY	RANGE	ACCURACY
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

DATA FLOW

Measurement Frequency (Adjustable)	- Default: Once every approximately 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 at no additional cost

OPERATING CONDITIONS

Operating temperature	0 – 50° C (00 – 40° 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, biennial recalibration recommended**

POWER

Externally Powered **Electrical Power Required**	- Ozone Module is powered through the companion Node-S, which needs to be plugged into an outlet when paired with Ozone Module. **Not solar-powered.**
Power Consumption	<6W (companion Node-S power consumption not included)

DIMENSIONS

Dimensions	33.5 cm (H) × 27.4 cm (W) × 13.3 cm (D)
Weight	8.7 lb (3.94 kg)

MOUNTING & DEPLOYMENT

Connect to Node	Plug module into Clarity Node-S; Node-S will reset and automatically recognize the module
Ozone Module Siting	Install device in an open area with unobstructed air flow where ambient O_3 concentration can be evaluated — see our siting guide for more info
Mounting	Use provided mounting brackets to affix to a pole or another secure foundation