

## EDGE AIR

Part #: EDCLAR



The LoggerFlex EDGE AIR delivers precise, multi-parameter environmental monitoring for ambient temperature, relative humidity, CO<sub>2</sub> concentration, and comprehensive air quality assessment. Leveraging robust Wi-Fi and cellular connectivity, it ensures seamless and secure data transmission to the LoggerFlex Cloud across diverse installation environments. Equipped with an advanced CO<sub>2</sub> Alarm Suite, the EDGE AIR provides immediate alerts for critical CO<sub>2</sub> spikes and thresholds associated with long-term exposure. Additionally, its integrated Mold Index Predictor intelligently assesses environmental trends to calculate and mitigate potential mold risk.

Real-time alerts are delivered directly through the device's visual display and audible buzzer, complemented by remote notifications via email, SMS, or phone, ensuring immediate awareness of critical changes. Further enhancing its utility, the EDGE AIR provides advanced reporting capabilities, including intuitive five-stage air quality charting, detailed time-series graphs, and compliance-ready reports. These tools are instrumental in maintaining optimal, healthier indoor environments across diverse applications. Optimized for both Wi-Fi and cellular operation, the EDGE AIR ensures reliable data integration and boasts an extended battery life of up to 2 years, enabling long-term monitoring with minimal intervention.

Ports Function			Connectivity			Power Supply	
PORT I	PORT II	PORT III	BLE	2.4GHz Wi-Fi	Cellular	Internal	External
Not in Use	Dry Contact / Flood	Not in Use	✓	✓	✓	4 x AA replaceable Alkaline	5V DC Standard USB-Charger

Built-in Sensors						
Sensor	Configuration	Function	Min Range	Max Range	Accuracy	Resolution
Ambient Temperature	Built-in	Record & Alarm	-10 °C (14 °F)	+60 °C (140 °F)	±0.2 °C (±0 °F)	0.1
Relative Humidity	Built-in	Record & Alarm	0%	99% non-condensing	±1.8% RH (at 25 °C, 10-90%)	1%
CO <sub>2</sub> Concentration	Built-in	Record & Alarm	400 ppm	2,000 ppm	±40 ppm + 5% of reading (at 25°C & 50% RH)	1 ppm
Air Quality (VOC)	Built-in	Record & Alarm	5 levels ranging from Excellent	-	-	-

External Sensors								
Sensor	Connection	Configuration	Function	Min Range	Max Range	Accuracy	Resolution	Length
Digital Input (Dry Contact)	Detachable	Optional	Alarm	-	-	-	-	Up to 100 m (330 ft)

Dimensions						Net Weight	
Length		Width		Height		Grams	Oz
104 mm	4 3/32"	88 mm	3 15/32"	30 mm	1 3/16"	235	8.3

Operation	
Feature	Specification
Operation Temperature range	-10 °C (14 °F) to +60 °C (140 °F)
Display Update Temperature Range	0 °C (32 °F) to +50 °C (122 °F)
Internal Memory Capacity	49,000 Record of each measured Parameter
Recording interval	1 to 30 minutes
Syncing interval (sending data to the cloud)	Real-time Alarms - 10 minutes to 7 days

Network Interface & Certifications		
Interface	Specification	FCC ID
Wi-Fi	IEEE 802.11 b/g/n – 2.4 GHz	2AC7Z-ESPWROOM32
Cellular	LTE-M & 2G (all band - Global)	2AJYU-8VC0001