

EDGE AIR

DATALOGGER & ALARM



Smart Indoor Air Monitoring with Predictive Alerts and Seamless Connectivity

EDGE AIR delivers precision monitoring of ambient temperature, relative humidity, CO₂ concentration, and air quality. With BLE, WiFi, and Cellular connectivity, it ensures uninterrupted data flow to the LoggerFlex Cloud.

CO₂ Alarm Suite: Instant alerts for high CO₂ spikes and long-term exposure thresholds

Mold Index Predictor: Calculates mold risk based on temperature and humidity trends

On-Device & Remote Notifications: Visual display warnings, audible buzzer, plus email/SMS/phone alerts

Advanced Reporting: Five-stage air quality charting, time-series graphs, and compliance-ready reports, Maintain healthier indoor spaces in schools, offices, healthcare settings, and more, proactively, accurately, and with zero downtime.

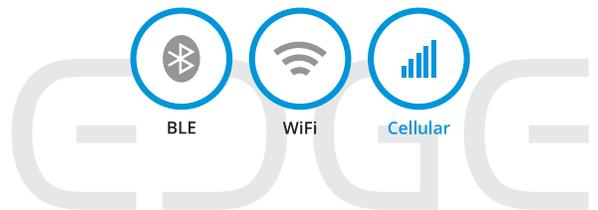
Sensors & Monitoring

CO ₂ Concentration	Ambient Temperature	Relative Humidity	Air Quality	Mold Index	Digital Input	Power Disruption	Location Cellular Only

- Integrated Ambient **Temperature** and **Relative Humidity** Sensor.
- Built-in **CO₂ Sensor** for monitoring carbon dioxide concentration
- Built-in **Air Quality** Sensor with 5-level classification
- One (1) **Digital Input** (Dry Contact) for Door Magnet or Flood Sensor.
- Up to 2 year **battery life** (4 x AA replaceable Alkaline)

Real-time Alarms

- **High & Low** Temperature, Humidity, and CO₂ Momentary Spike Alarms.
- **CO₂ Long-Term Exposure** Warnings.
- **Power Interruption** and Restoration Alarms.
- **Flood Detection**, Door Magnet or Dry contact Real-Time Alarms.
- **Mold Index** Calculation and Mold risk Warnings.



EDGE's Special Features

Advanced Monitoring, Alarms, and Seamless Connectivity

Connects directly to WiFi or Cellular (No gateway required)
Alarms via Email, SMS, Phone Call
Power Disruption and Re-connection Notification
Continuously tracks CO₂ levels to assess prolonged air quality risks.
Sends instant alarms when CO₂ exceeds safe exposure limits.
Real-time BLE streaming
Automatic WiFi-to-cellular rollover (in Cellular model)
Works on 4xAA batteries (up to 2 years) or USB-C power
Super user-friendly setup with QR scan

Display & Interface

Graphical e-paper screen shows:

- Real-time data
- Active alarms
- Battery, Connection and power status
- Air quality and long-term exposure data
- Audible and visual alarms directly on device.

Technical Specifications

Built in sensors		Temperature, RH, Air Quality (VOC), Co ₂
Operation Temperature range	°C	-10 to +60
	°F	+14 to +140
Temperature Measurement Accuracy		±0.2 °C (±0.36 °F)
Temperature Reporting Resolution		0.1
RH measurement range		0-99% non-condensing
RH Measurement Accuracy		±1.8% RH (at 25 °C, 10-90%)
Air Quality Measurement Range		5 levels ranging from Excellent to Dangerous
Carbon dioxide Sensor's Measurement Principal		Photoacoustic
Carbon dioxide Measurement Range (CO ₂)		400 ppm to 2,000 ppm
CO ₂ Measurement Accuracy		±40 ppm + 5% of reading (at 25°C & 50% RH)
Interface		Wi-Fi - IEEE 802.11 b/g/n - 2.4 GHz BLE (Bluetooth Low Energy) - 2.4 GHz Cellular LTE-M & 2G (all band - Global) *
FCC ID	WiFi	2AC7Z-ESPWROOM32
	Cellular	2AJYU-8VC0001
Power Supply	Internal	4 x AA batteries
	External	5V DC Standard USB-Charger
Display Update Temperature Range	°C	0 to +50
Out of this range, display updates are paused	°F	+32 to +122
Internal Memory Capacity		49,000 Record of each measured Parameter
Recoding interval		1 to 30 minutes
Syncing interval (sending data to the cloud)		Real-time Alarms - 10 minutess to 7 days

* Cellular model - with global e-sim

LoggerFlex Cloud Platform

Powerful Web App with Compliance-Built Features

Continuous CO₂ Exposure Logbook
Secure, untamperable activity tracking
Time-stamped user actions and alarm acknowledgments
Professional Reporting with:

- Peak CO₂ levels
- Exposure duration analytics
- Visual graphs & long-term trends
- Location-based device management (Map View)

Optimized for Mobile & Desktop
Team Sharing & Role-Based Access Control

Connectivity

WiFi for continuous cloud sync and Real-time alarms
BLE for smooth real-time data broadcast
Cellular with automatic WiFi failover. (Cellular model)

