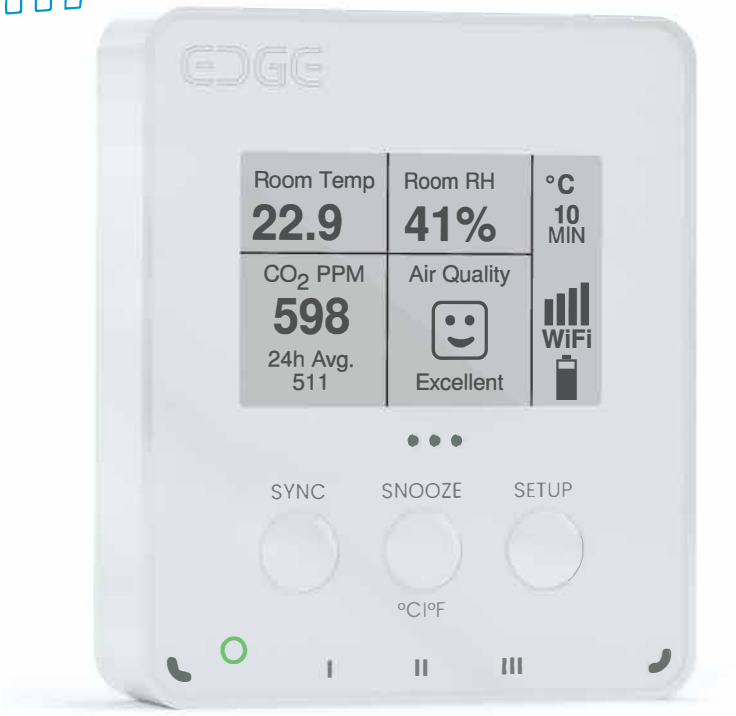
Made in Canada

EDGE AIR

DATALOGGER & ALARM

E-INK Display + Buzzer



Smart Indoor Air Monitoring with Predictive Alerts and Seamless Connectivity

EDGE AIR delivers precision monitoring of ambient temperature, relative humidity, CO_2 concentration, and air quality. With BLE, WiFi, and Cellular connectivity, it ensures uninterrupted data flow to the LoggerFlex Cloud.

Co_2 Alarm Suite: Instant alerts for high CO_2 spikes and long-term exposure thresholds

Mold Index Predictor: Calculates mold risk based on temperature and humiditytrends

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 **CO_2 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)

BLE · WiFi · Cellular

Real-time Alarms

- **High & Low** Temperature, Humidity, and CO_2 Momentary Spike Alarms.
- Co_2 **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.

Phone Call · Text · Email · Audible · Visible

LOGGERFLEX
Data acquisition & Monitoring Solutions

EN-June 2025

1.888.610.7664 www.calcert.com sales@calcert.com

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 CO_2 levels to assess prolonged air quality risks.
Sends instant alarms when CO_2 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.

LoggerFlex Cloud Platform

Powerful Web App with Compliance-Built Features

Continuous CO_2 Exposure Logbook
Secure, untamperable activity tracking
Time-stamped user actions and alarm acknowledgments
Professional Reporting with:

- Peak CO_2 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-tima alarms
BLE for smooth real-time data broadcast
Cellular with automatic WiFi failover. (Cellular model)

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 Out of this range, display updates are paused	°C	0 to +50
	°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
Data acquisition & Monitoring Solutions

Made in Canada