EDGE

EDGE Air Cellular

Part **EDCLAR**

The LoggerFlex EDGE AIR delivers precise, multi-parameter environmental monitoring for ambient temperature, relative humidity, CO2 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 CO2 Alarm Suite, the EDGE AIR provides immediate alerts for critical CO2 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.

At a glance

MEASURES
Ambient Temperature, Relative Humidity, CO2 Concentration, Air Quality

CONNECTIVITY
WiFi 2.4 GHz · LTE · Bluetooth LE

BATTERY LIFE
About 2 years on 4 × AA

INTERNAL MEMORY
49,000 records of each measured parameter

RECORDING INTERVAL
1 to 30 minutes

INGRESS PROTECTION
IP31

Ports and connectivity

Port I
Not used

Port II
Dry Contact / Flood

Port III
Not used

Connectivity
WiFi 2.4 GHz · LTE · Bluetooth LE

Built-in sensors

SENSOR	RANGE	ACCURACY	RESOLUTION
Ambient Temperature Built-in · Record & Alarm	-10 °C to +60 °C (14 °F to +140 °F)	±0.2 °C (±0.36 °F)	0.1 °C (0.2 °F)
Relative Humidity Built-in · Record & Alarm	0% to 99% non-condensing	±3% RH (Sensirion SHT40)	1%
CO2 Concentration (Sensirion SCD41 photoacoustic) Built-in · Record & Alarm	400 ppm to 5,000 ppm	±(50 ppm + 2.5% of reading) up to 1,000 ppm; ±(50 ppm + 3%) to 2,000 ppm; ±(40 ppm + 5%) to 5,000 ppm	1 ppm
Air Quality (VOC) Built-in · Record & Alarm	5 levels, Excellent to Dangerous	-	-

Plug-in sensors

SENSOR	CABLE
Digital Input (Dry Contact / Flood) Detachable · Optional · Alarm	Up to 100 m (330 ft)

RECORDING, LF CLOUD AND POWER

Internal memory	49,000 records of each measured parameter
Recording interval	1 to 30 minutes
Cloud sync interval	10 minutes to 7 days (alarms are sent immediately, whatever the interval)
Battery life	About 2 years on 4 × AA (depending on settings, reception, ambient temperature, battery quality, alarms, buzzer and BLE)
External power	USB-C 5 V DC (supply not included)

ENCLOSURE AND ENVIRONMENT

Dimensions (L × W × H)	104 × 88 × 30 mm (4 3/32 × 3 15/32 × 1 3/16 in)
Net weight	235 g (8.3 oz)
Operating temperature	-10 °C (14 °F) to +60 °C (140 °F)
Display update range	0 °C (32 °F) to +50 °C (122 °F)
Ingress protection	IP31 (housing, protected against dripping water, not waterproof)

WIRELESS AND COMPLIANCE

Compliance	FCC, IEEE 802.11 b/g, NIST traceable, RoHS, CE (EN 61326-1 and EN 61010-1, 3rd edition)
WiFi	IEEE 802.11 b/g/n, 2.4 GHz · Contains FCC ID 2AC7Z-ESPWROOM32
Cellular	LTE (built-in global eSIM) · Contains FCC ID 2AJYU-8VC0001

Request a quote →

Sold and supported through LoggerFlex distributors. An engineer replies within one business day.

sales@loggerflex.com **1-888-365-8880** **www.loggerflex.com/en/product/edge-air-cellular**

Product page, manuals and LF Cloud setup