

BLOCK

BLOCK Essential

 Part **BLES00**

Retired product: no longer sold; the EDGE Essential replaces it.
 Units in the field keep working in LF Cloud.

The BLOCK ESSENTIAL Data Loggers are engineered for efficient data collection, instant alarm capabilities, and optimized battery longevity. These devices seamlessly integrate with existing Wi-Fi infrastructures, providing adaptable and robust monitoring solutions.

BLOCK


At a glance



MEASURES
 Temperature, Relative Humidity,
 Digital Input, Flood Detector



CONNECTIVITY
 WiFi 2.4 GHz



INTERNAL MEMORY
 64,000 records of each
 measured parameter



RECORDING INTERVAL
 1 minute to 30 minutes



CLOUD SYNC INTERVAL
 1 hour to once a week



EXTERNAL POWER
 USB-C 5 V DC

Ports and connectivity

Port I

Not used

Port II

Dry Contact

Port III

Flood Detector

Connectivity

WiFi 2.4 GHz

Built-in sensors

SENSOR	RANGE	ACCURACY	RESOLUTION
Temperature Built-in · Record & Alarm	-20 °C to +70 °C (-4 °F to +158 °F)	±1.2 °C (±2.2 °F)	0.1 °C (0.2 °F)
Relative Humidity Built-in · Record & Alarm	0% to 99% (non-condensing)	±3% RH	1%

— Plug-in sensors

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

RECORDING, LF CLOUD AND POWER

Recording interval	1 minute to 30 minutes (down to 3 seconds by order, set by LoggerFlex)
Cloud sync interval	1 hour to once a week (down to 1 min. by order)
Internal memory	64,000 records of each measured parameter
Battery	4 × AA batteries
External power	USB-C 5 V DC (supply not included)

ENCLOSURE AND ENVIRONMENT

Dimensions (L × W × H)	53 × 43 × 133 mm (2 3/32 × 1 11/16 × 5 1/4 in)
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Net weight	300 g (10.6 oz)
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WIRELESS AND COMPLIANCE

WiFi	IEEE 802.11 b/g/n, 2.4 GHz · Contains FCC ID 2AC7Z-ESPWROOM32
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MORE FEATURES

Automated Alarms	Sends phone calls, texts, and email alerts based on threshold exceedance or digital input activation
Digital Input Functions	Acts as a WiFi-based flood detector and phone dialer using digital ports for alerts on water leaks or external input activations

— Good to know

Retired on 2026-10-10. Kept for installed-base support.
Replacement: EDGE Essential (EDWIES WiFi / EDCLES cellular).

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/block-essential



Product page,
manuals and
LF Cloud
setup