BLOCK

BLOCK ANALOG 4-20 mA

Part **BLA420**

The BLOCK Analog - 4-20 mA Loop is a highly versatile and precise device designed to transform any analog output system into a powerful datalogger. It seamlessly integrates advanced monitoring, instant alarms, and cloud data logging capabilities with any device featuring a 4-20 mA loop analog output, ensuring comprehensive monitoring and actionable insights.

BLOCK

At a glance

MEASURES
Temperature, Relative Humidity, Digital Input, 4-20 mA Loop Analog Signal

CONNECTIVITY
WiFi 2.4 GHz

BATTERY LIFE
Up to 3 years on 4 × AA

INTERNAL MEMORY
64,000 records of each measured parameter

RECORDING INTERVAL
1 minute to 30 minutes

INGRESS PROTECTION
IP31

Ports and connectivity

Port I
Not used

Port II
Dry Contact

Port III
4-20 mA Input

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)	±0.6 °C (±1.1 °F)	0.1 °C (0.2 °F)
Relative Humidity Built-in · Record & Alarm	0 % to 99 % non-condensing	±1.8 % RH (10-90% RH)	1%

Plug-in sensors

SENSOR	RANGE	ACCURACY	RESOLUTION	CABLE
Digital Input Detachable · Optional · Alarm	–	-	-	Up to 100 m (330 ft)
4-20 mA Loop Analog Signal Detachable · Record & Alarm	4 mA to 20 mA	±2% of full scale	0.01 mA	Up to 20 m (66 ft)

RECORDING, LF CLOUD AND POWER

Internal memory	64,000 records of each measured parameter
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)
Battery life	Up to 3 years on 4 × AA (depending on settings, reception, ambient temperature, battery quality and alarms)
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)
Net weight	196 g (6.9 oz)
Ingress protection	IP31 (housing, protected against dripping water, not waterproof)

WIRELESS AND COMPLIANCE

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

MORE FEATURES

Lowest working temperature	-30 °C (-22 °F)

Good to know

- Unit and mapping range can be defined in the application.
- Power source 4-20 mA is not included in the package.

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-analog-420**

Product page, manuals and LF Cloud setup