



BLOCK ANALOG - 4-20 mA Loop

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, real-time alarms, and cloud data logging capabilities with any device featuring a 4-20 mA loop analog output, ensuring comprehensive monitoring and actionable insights.

This device offers flexible current value mapping to sensor-specific dimensions and ranges via its application, making it suitable for diverse industrial applications. It sends instant alerts based on mapped current values within adjustable ranges, enabling timely intervention for critical conditions. With a user-friendly web interface and secure cloud-based storage, it provides easy configuration and remote access to historical data, ensuring robust record-keeping and advanced data analysis.

Given the widespread use of 4-20 mA analog output transducers across industries—from monitoring suspended particles and formaldehyde levels to water turbidity—the BLOCK Analog - 4-20 mA Loop empowers users to easily monitor and analyze virtually anything, leveraging the robust LoggerFlex Cloud platform for effortless data management and enhanced decision-making.

Ports Function			Connectivity			Power Supply	
PORT I	PORT II	PORT III	BLE	2.4GHz Wi-Fi	Cellular	Internal	External
Not in Use	Dry Contact	4-20mA Loop	-	✓	-	4 x AA Batteries	5V DC Standard USB-Charger

Built-in Sensors						
Sensor	Configuration	Function	Min Range	Max Range	Accuracy	Resolution
Temperature	Built-in	Record & Alarm	-20 °C (-4 °F)	+70 °C (158 °F)	±0.6 °C (±1 °F)	0.1 °C (0 °F)
Relative Humidity	Built-in	Record & Alarm	0 %	99 % non-condensing	±1.8 % RH (10-90% RH)	1%

External Sensors								
Sensor	Connection	Configuration	Function	Min Range	Max Range	Accuracy	Resolution	Length
Digital Input	Detachable	Optional	Alarm	-	-	-	-	Up to 100 m (330ft)
4-20 mA Loop Analog Signal	Detachable	-	Record & Alarm	4 mA	20 mA	±2% of full scale	0.01	Up to 20 m (70 ft)

Dimensions						Net Weight	
Length		Width		Height		Grams	Oz
53 mm	2 3/32"	43 mm	1 11/16"	133 mm	5 1/4"	196	6.9

Operation	
Feature	Specification
Internal Memory Capacity	64,000 Record of each measured Parameter
Record intervals	1 minute to 30 minutes (down to 5 sec. by order)
Upload intervals	1 hour to once a week (down to 1 min. by order)

Network Interface & Certifications		
Interface	Specification	FCC ID
Wi-Fi	IEEE 802.11 b/g/n – 2.4 GHz	2AC7Z-ESPWROOM32

Extra Information

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