



BLOCK Differential Air (Gas) Pressure

Part #: BLDIFP

The BLOCK Differential Air (Gas) Pressure device is a precise and reliable solution for monitoring differential air or gas pressure within a range of 0 to 4,000 Pa. It is essential for maintaining optimal conditions in diverse settings, from industrial environments to specialized spaces like cleanrooms.

This device plays a critical role in identifying issues such as clogged air filters, enabling proactive maintenance to prevent system failures and enhance operational efficiency. It supports maintaining negative pressure in critical environments, ensuring air quality and compliance with standards.

With the capability to report pressure in H₂O mm, the BLOCK Differential Air (Gas) Pressure device provides accurate measurements for applications requiring water depth monitoring up to 400 mm. Additionally, the device records data for comprehensive analysis and issues real-time alarms when pressure conditions exceed defined thresholds, ensuring timely interventions. Its versatility and precision make it an indispensable tool for effective environmental and system management.

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

Built-in Sensors						
Sensor	Configuration	Function	Min Range	Max Range	Accuracy	Resolution
Differential Pressure	Built-in	Record & Alarm	0 KPa	4 KPa (4000 pa)	±1% of full scale	0.001 KPa
Water Depth	Built-in	Record & Alarm	0 mm	400 mm (15.8 inch)	±1% of full scale	0.001 KPa
Temperature	Built-in	Record & Alarm	-20 °C (-4 °F)	+70 °C (158 °F)	±1.0 °C	0.1 °C
Relative Humidity	Built-in	Record & Alarm	0%	99% non-condensing	±3 %RH	1%

External Sensors								
Sensor	Connection	Configuration	Function	Min Range	Max Range	Accuracy	Resolution	Length
Digital Input	Detachable	Optional	Alarm	-	-	-	-	Up to 100 m (330 ft)
Flood Detector	Detachable	Optional	Alarm	-	-	-	-	Up to 100 m (330 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

Connects to pressure ports via 2mm D - 600 mm (2 ft.) silicon hose (included in the package)