



BLOCK Fluid Pressure & Temp

Part #: BLTPRS-XXXX

The BLOCK Fluid Pressure and Temperature monitoring solution provides precise measurements of fluid pressure and temperature, along with real-time alarms for various applications. It also records ambient temperature and humidity and features two external ports for a flood sensor and a programmable digital input, which can function as a cumulative pulse counter or digital input alarm.

With the ability to report pressure in H₂Omm (in addition to MPa and PSI), it is an excellent choice for depth monitoring in tanks, eliminating the need to insert components into the tank or access its top. Pressure sensor range must be selected when ordering, as it is permanently integrated into the device and cannot be changed later, ensuring accuracy and reliability for specific applications. This versatility makes it suitable for a wide range of environments.

Ports Function			Connectivity			Power Supply	
PORT I	PORT II	PORT III	BLE	2.4GHz Wi-Fi	Cellular	Internal	External
Temperature Probe	Dry Contact	Flood Detector	-	✓	-	4 x AA batteries	5V DC Standard USB-Charger

Built-in Sensors						
Sensor	Configuration	Function	Min Range	Max Range	Accuracy	Resolution
Ambient Temperature	Built-in	Record & Alarm	-20 °C (-4 °F)	70 °C (158 °F)	±0.3 °C (±1 °F) typical	0.1 °C (0 °F)
Relative Humidity	Built-in	Record & Alarm	0 %RH	99 %RH non-condensing	±1.8 %RH typical	1 %

External Sensors								
Sensor	Connection	Configuration	Function	Min Range	Max Range	Accuracy	Resolution	Length
Fluid Pressure Sensor	Fixed	Detachable	Record & Alarm	0 bar (0 MPa)	5 bar (0.1 MPa)	< 0.5% sensor's full range	0.1 bar (0.01 MPa)	0.9 m (3 ft)
Temperature Probe	Detachable	Detachable	Record & Alarm	-55 °C (-67 °F)	125 °C (257 °F)	±0.5 °C (±1 °F)	0.1 °C (0 °F)	1.5 m (5 ft) – extendable up to 9 m (30 ft)
Digital Input (Pulse Counter)	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"	260	9.2

Operation	
Feature	Specification
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)
Internal Memory Capacity	64,000 Record of each measured Parameter

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

Extra Information

Available pressure ranges:

0 to 5 bars (0 to 0.1 MPa = 100 Kpa) - Part Number: BLTPRS-0100

Suitable for water tank depth measurement (up to 10 meters)

0 to 5 bars (0 to 0.25 MPa = 250 Kpa) - Part Number: BLTPRS-0250

Suitable for water tank depth measurement (up to 25 meters)

0 to 5 bars (0 to 0.5 MPa = 500 Kpa) - Part Number: BLTPRS-0500

0 to 10 bars (0 to 1 MPa = 1000 Kpa) - Part Number: BLTPRS-001K

Suitable for city water supply pressure

0 to 20 bars (0 to 2 MPa = 2000 Kpa) - Part Number: BLTPRS-002K

0 to 50 bars (0 to 5 MPa = 5000 Kpa) - Part Number: BLTPRS-005K

0 to 100 bars (0 to 10 MPa = 10000 Kpa) - Part Number: BLTPRS-010K

Connector

1/4" NPT