LOGGERFLEX
Data acquisition & Monitoring Solutions



USER MANUAL

BLOCK Fluid Pressure & Temp

Learn how to register, configure, and operate your BLOCK Fluid Pressure and external temperature Wi-Fi data logger.

Part No. **BLTPRS-XXXX** WiFi

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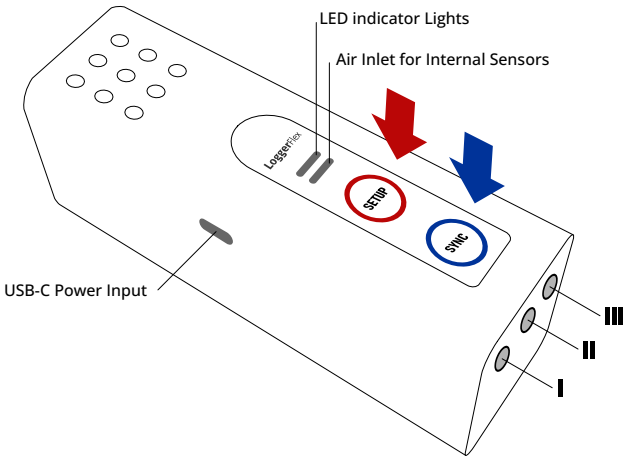
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1 Device Overview

The BLOCK series features a rugged industrial housing with two physical buttons on the device: **SETUP** (top button) and **SYNC** (bottom button). By default, the device operates autonomously on 2.4GHz WiFi, uploading sensor readings to the cloud at scheduled intervals.

SETUP Button (Top). Press to activate the internal WiFi configuration hotspot for network setup.

SYNC Button (Bottom). Press to instantly trigger an environmental reading and immediately upload the latest data to your LoggerFlex Cloud dashboard.



Fixed Pressure Transducer Cable

DEDICATED SENSOR (EXCEPTIONAL FEATURE)

Unlike standard detachable ports, the BLOCK Fluid Pressure logger is equipped with an **exceptional, dedicated, fixed pressure transducer cable** emerging directly from the device housing. This dedicated integration ensures absolute sealing and reliability for heavy-duty pipeline monitoring without occupying any of the three auxiliary ports.

CABLE TYPE & CONNECTION	CABLE LENGTH	CONNECTOR SPECIFICATION
Fixed & Heavy-Duty	50 cm (20 in)	1/4" NPT Thread

2 Port Specifications

Each BLOCK Fluid Pressure device is equipped with three robust external ports for auxiliary sensor telemetry. The fluid pressure sensor is permanently attached to the device and does not occupy any of these ports.

INCLUDED

Port I: Temperature Probe

Takes the included detachable external digital temperature probe for simultaneous fluid or ambient thermal measurements from -55°C to +125°C (-67 °F to +257 °F). Supplied with a 1.5 m (4.9 ft) cable; with extensions the probe run can reach 16.5 m (54 ft) in total.

OPTIONAL — NOT INCLUDED

Port II: Dry Contact

Configured for dry contact digital input. Supports open/close sensors. (Optional — dry contact adapter not included.)

OPTIONAL — NOT INCLUDED

Port III: Flood Detector

Equipped for water leak and flood sensors. Connect a moisture probe for instant leak alerts. (Optional — flood sensor probe not included.)

3 Measured Parameters

Your BLOCK sensor is equipped with highly calibrated internal and/or external telemetry options.

Parameter	Range	Accuracy
Ambient Temp & Humidity INTERNAL Built-in ambient room temperature monitoring.	–20°C to +70°C (-4 °F to +158 °F) / 0 to 100% RH	±0.5°C (±0.9 °F) / ±3% RH
Fluid Pressure Transducer EXTERNAL High-precision external transducer, permanently attached to the device by a fixed, non-detachable cable, monitoring pipeline, gas, or fluid pressure continuously.	0 to 500 PSI	±0.5%

Parameter	Range	Accuracy
External Temperature Probe EXTERNAL Detachable external temperature probe, included, that connects to Port I for simultaneous pipeline thermal measurements.	**–55°C to +125°C (-67 °F to +257 °F)**	**±0.5°C (±0.9 °F)**

4 Pressure Transducer Submodels

The BLOCK Fluid Pressure series is available in multiple submodels tailored for specific pressure ranges and application environments.

Submodel SKU	Pressure Range	Suitable Application
BLTPRS-0100	0 to 1 bar (0 to 14.5 psi; 0 to 0.1 MPa = 100 kPa)	Water tank depth measurement (up to 10 m (33 ft))
BLTPRS-0250	0 to 2.5 bar (0 to 36 psi; 0 to 0.25 MPa = 250 kPa)	Water tank depth measurement (up to 25 m (82 ft))
BLTPRS-0500	0 to 5 bar (0 to 73 psi; 0 to 0.5 MPa = 500 kPa)	Standard pipeline and low-pressure fluid systems
BLTPRS-001K COMMON SKU	0 to 10 bar (0 to 145 psi; 0 to 1 MPa = 1000 kPa)	City water supply pressure monitoring
BLTPRS-002K	0 to 20 bar (0 to 290 psi; 0 to 2 MPa = 2000 kPa)	High-pressure distribution and refrigeration
BLTPRS-005K	0 to 50 bar (0 to 725 psi; 0 to 5 MPa = 5000 kPa)	Industrial hydraulic and process control
BLTPRS-010K	0 to 100 bar (0 to 1,450 psi; 0 to 10 MPa = 10000 kPa)	Extreme-pressure hydraulic systems

5 Setup & Configuration

Follow these steps to register your BLOCK series sensor and connect it to your local wireless network.

1 1. Account Registration

Before powering the device, you must add it to your account on the web platform.

- Go to app.loggerflex.com or use the LoggerFlex Mobile App.
- Log in to your account, or sign up if you are a new user.
- Click the **+ (Add Device)** button in your dashboard.
- Enter the **Serial Number** and **DUID** code found on the label at the back of the device.

Why register first?

The system will guide you through step-by-step configuration (recording intervals, sync intervals, alarm thresholds) and ensure the device can successfully connect to the LoggerFlex cloud when it comes online.

2 2. Connect to 2.4GHz WiFi

BLOCK series sensors connect directly to your local wireless network. *Note: Only 2.4GHz networks are supported; 5GHz is not compatible.*

1. Press the **SETUP** button (top button) on your device. The device will boot its configuration portal and broadcast a temporary WiFi network named **Datalogger**.
2. Using a smartphone, tablet, or computer, connect to this temporary WiFi network.
3. A configuration page should automatically open in your browser. If it does not, open a browser and go to **8.8.8.8**.
4. Select your local WiFi SSID network from the list, input the correct password, and click **Connect**.

3 3. Cloud Synchronization

- Once connected to WiFi, the device will communicate with the LoggerFlex servers to download your configured logging settings, thresholds, and sync intervals.
- You can press the **SYNC** button (bottom button) at any time to verify the network connection and force an immediate update.
- Your sensor data is now accessible from anywhere in the world on the LF Cloud Dashboard.

6 Battery Replacement Guide

To replace the batteries, locate the round release tab on the top of the device. Press down firmly on this spot to release the back cover, then lift/slide the back cover off starting from the top to expose the battery compartment.

Standard Models (4 x AA Batteries)
The standard battery compartment holds 4 x AA batteries. You can use any high-quality alkaline batteries for reliable, long-term operation.

Older Models (2 x AA Batteries)
Some older hardware models only feature 2 battery slots instead of 4. For these 2-battery models, you **must only use Energizer Lithium Ultimate AA batteries**. Do not use standard alkaline batteries in these older models, as they will not provide sufficient power and will deplete rapidly.