LOGGERFLEX
SMART DEVICES LTD

Why LoggerFlex?

No Gateway Required
Devices connect directly to WiFi or cellular networks for fast and easy installation.

Real-Time Alerts That Matter
Get instant phone calls, text messages, and emails for leaks, pressure drops, or temperature spikes.

One Platform. Everything Inside.
Manage all client sites, devices, alarms, reports, and users from a single simple app.

From Raw Data to Actionable Insight
Detect anomalies and equipment failures early with predictive maintenance and automated analytics.

Share Securely, Collaborate Easily
Share live system status and reports with your technicians and facility managers securely.

Remote Access, Anytime, Anywhere
Monitor fields, greenhouses, barns, and storage facilities from any device worldwide.

Scales from One Sensor to Thousands
Grow from monitoring a single fridge to a full building automation system without changes.

Predictive Maintenance Made Easy
Prevent expensive failures by detecting early signs of trouble with simple, cost-effective sensors.

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Made in Canada

HVAC-R & Mechanical Systems

IoT for Buildings

Fix It Before It Breaks.

01. The Challenge

- Limited visibility into real-time cooling and airflow.
- Inefficient cycling and high energy usage.
- Product loss due to delayed response to failures.
- Manual logging and disconnected mechanical systems.
- No early warning for compressor or climate risks.

02. Key Features

- Gathering nvironmental and pressure data.
- Secure cloud dashboards for remote monitoring.
- Multi-year battery life for wireless sensors.
- Industrial-grade accuracy and reliability.

03. Solutions

BLOCK Differential Pressure

Part # BLDIFP RETIRING · NO REPLACEMENT YET

- Differential Pressure
  0 to 4 kPa (0 to 0.58 psi)
- Ambient Temperature
- Relative Humidity (RH)
- Flood Detector (optional)
- Dry Contact (optional)

Operational Temperature
-20 to +60°C (-4 to 140°F)
Power Supply
4 x AA Batteries
USB-C Port

Connectivity WiFi

Cellular Water Meter

Part # CWMETER

- Water Consumption
- Leak, Burst & Fault Alarms

Measurement
Ultrasonic, no moving parts
Accuracy
Class 2 (ISO 4064 / OIML R49)
Sizes
DN20 (3/4 in), DN25 (1 in)
Protection
IP68

Power Supply
Sealed lithium battery, rated for more than 6 years
Reporting
Once a day, over 4G LTE

Connectivity 4G LTE

04. Use Cases

Cleanroom & Isolation Safety

Ensure critical environments like hospital isolation rooms or laboratories maintain the correct negative or positive pressure. Receive instant alarms if containment is breached.

HEPA Filter Validation

Monitor airflow resistance across filters to detect clogging early and schedule predictive maintenance.

Fan & Blower Proof-of-Flow

Verify that fans are actually moving air—not just spinning—to instantly detect broken belts, slipping couplings, or closed dampers in ventilation systems.

Scan to Download Technical Datasheet

Water Usage Tracking

Measure and analyze water consumption to reduce waste and operating costs.

Usage Pattern Analysis

Understand normal vs abnormal water behavior for better system control.

Leak & Burst Alerts

Continuous-flow (possible leak), burst and empty-pipe alarms arrive with the daily report.

No WiFi, No Gateway

Built-in 4G LTE with a data SIM managed by LoggerFlex, so the meter reports on its own.

Scan to View the Product Page

MODGATE modbus - Cloud Gateway

Part # MODGAT

Battery-Powered Integration for Third-Party Devices

Connect virtually any machine or sensor with a Modbus interface directly to the cloud to unlock real-time alarms and historical data logging. Whether you need to track internal parameters from a commercial fridge compressor or monitor specialized environmental safety sensors like Radon, NO2, or Ozone, this device acts as a universal bridge. It features dual WiFi and Cellular connectivity with automatic rollover and a built-in global eSIM working in 170 countries. Uniquely, it can power up your external sensor, read the data, and shut it down to save energy, allowing you to deploy a completely wireless, battery-operated monitoring station for any application.

Scan to Download Technical Datasheet

Bridge to Cloud for Any Sensor

This device acts as a universal bridge, instantly connecting any standard 4-20mA industrial sensor—such as those for vibration, gas detection, or flow—directly to the cloud. It transforms basic analog sensors into smart, wireless data loggers with built-in alarm systems. This allows you to easily monitor the health of existing sensors or design a completely custom monitoring solution to measure virtually anything in your facility without complex wiring.

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EDGE Thermo

Part # WiFi: EDWITR Cellular: EDCLTR

- Temperature Probe 1
- Temperature Probe 2
- Ambient Temperature
- Relative Humidity (RH)
- Mold Index
- Flood Detector (optional)
- Power Disruption
- Location (cellular model)

Power Supply
4 x AA Batteries
USB-C Port
Operational Temperature
-20 to +60°C (-4 to 140°F)
Probe Temperature range
-55 to +125°C (-67 to 257°F)
Accuracy
±0.5°C (0.9°F)

Connectivity Variations: Cellular + WiFi | WiFi

Ventilation Failure Alert

Detect dangerous CO_2 buildup instantly to prevent livestock and poultry losses.

Animal Respiratory Safety

Monitor CO_2 levels to reduce stress and improve animal productivity.

CO_2 for Plant Growth

Ensure optimal CO_2 levels for healthy crops and maximum yield.

Ventilation Capacity Check

Verify air exchange efficiency using real CO_2 load data.

Smart Ventilation Control

Balance CO_2 levels and energy use during cold or low-activity periods.

Exhaust Gas Detection

Identify harmful CO_2 intrusion from heaters, engines, or generators.

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03. Solutions

BLOCK Current

Part # BLXTCS

- Current
  0.1 to 30 A (non-invasive)
- Power Consumption
  Est. Kwh
- Probe Temperature
- Ambient Temperature
  Recording only - No Alarms
- Relative Humidity (RH)
  Recording only - No Alarms
- Dry Contact (optional)

Power Supply
4 x AA Batteries
USB-C Port

Operational Temperature
-25 to +60°C (-13 to 140°F)

Connectivity WiFi

BLOCK Pressure

Part # BLTPRS-XXXX (Select correct part number from datasheet.)

- Fluid Pressure
- Probe Temperature
- Ambient Temperature
  Recording only - No Alarms
- Relative Humidity (RH)
  Recording only - No Alarms
- Dry Contact (optional)
- Flood Detector (optional)

Power Supply
4 x AA Batteries
USB-C Port

Operational Temperature
-25 to +60°C (-13 to 140°F)

Connectivity WiFi

04. Use Cases

Compressor Overload Protection

Monitor for high current draw to prevent burnout in compressors and motors.

Belt Breakage Detection

Detect sudden drops in current that indicate broken belts or coupling failures.

Short Cycling Identification

Identify rapid on/off cycling that damages equipment and increases energy costs.

Predictive Motor Health

Track gradual increases in power consumption to identify wearing bearings before failure.

Scan to Download Technical Datasheet

Pump Performance Monitoring

Verify pump discharge pressure to ensure proper flow rates and catch impeller wear.

Leak Detection & System Readiness

Monitor critical pressure in refrigerant loops, fire extinguishers, and sprinkler lines to ensure system integrity and code compliance.

High Head Pressure Alert

Notify when pressure spikes due to dirty condenser coils or fan failures.

Filter Status & Tank Levels

Detect pressure changes indicating clogged liquid filters or measure hydrostatic pressure to track water tank levels.

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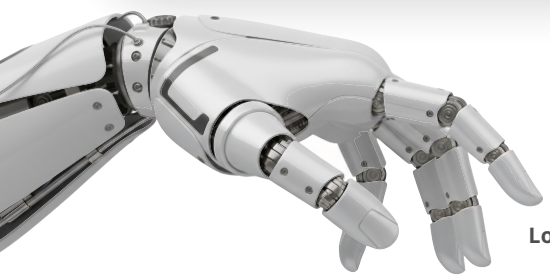

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