LOGGERFLEX
SMART DEVICES LTD

Why LoggerFlex?

No Gateway Required
Devices connect directly to WiFi or cellular networks for instant deployment.

Real-Time Alerts That Matter
Instant phone calls, SMS, and email notifications when conditions go out of range.

One Platform. Everything Inside.
Devices, data, alarms, users, reports, and permissions managed in a single app.

From Raw Data to Actionable Insight
Advanced analytics, VPD, mold risk, trends, and automated reports built in.

Share Securely, Collaborate Easily
Share live data and reports with teams, partners, or auditors with full access control.

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

Scales from One Sensor to Thousands
Built to grow from small farms to enterprise-scale operations without redesign.

Built for Compliance and Trust
Audit logs, secure data storage, and traceability ready for regulated environments.

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Made in Canada

Agriculture & AgTech Monitoring

Industrial IoT for Agriculture

Grow Smarter. Monitor Every Variable

01. The Challenge

- Limited visibility into real-time environmental conditions
- Inefficient irrigation and resource usage
- Crop and product loss due to delayed response
- Manual data collection and disconnected systems
- No early warning for mold, CO_2, or climate risk

02. Key Features

- Real-time environmental data collection
- Secure cloud-based dashboards
- Multi-year battery operation
- Industrial-grade accuracy and reliability
- Designed for harsh indoor and outdoor environments

03. Solutions

AgriMax

Part # AGRMAX

- Soil Moisture (%)
- Soil Temperature
- Ambient Temperature

Power Supply
4 x AA Batteries

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

Connectivity Cellular + 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

Precision Irrigation Control
Use soil moisture and soil temperature to irrigate only when crops actually need it.

Early Crop Stress Detection
Identify drought stress and unfavorable root-zone temperatures before crops are damaged.

Root-Zone Monitoring
Track soil moisture and temperature where roots grow to maximize nutrient uptake and growth.

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.

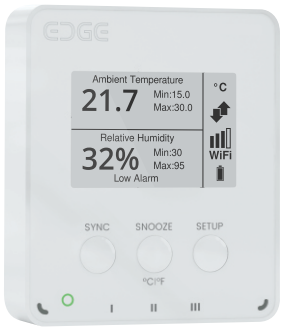
Scan to View the Product Page

03. Solutions

EDGE ESSENTIAL

Part # WiFi: EDWIES Cellular: EDCLES

- 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)

Connectivity Variations: Cellular + WiFi | WiFi

EDGE AIR

Part # WiFi: EDWIAR Cellular: EDCLAR

- Carbon dioxide
- Air Pollution (0 to 100%)
- 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
-10 to +60°C (14 to 140°F)
Carbon dioxide (CO_2) range
430 to 5000 ppm
Accuracy
±(40 ppm + 5% of reading)

Connectivity Variations: Cellular + WiFi | WiFi

04. Use Cases

Pre-Harvest Climate Control
Use temperature, humidity, and VPD to optimize plant transpiration, growth, and yield before harvest.

Post-Harvest Environment Monitoring
Monitor temperature and humidity to protect harvested crops from spoilage, dehydration, and quality loss.

Power Outage Alert
Receive instant notifications when power is lost or restored to prevent crop and system damage.

Mold Risk Alert
Use temperature and humidity trends to detect mold and fungal risk in crops and storage areas before damage occurs.

Scan to Download Technical Datasheet

> “From soil to cloud, intelligence in every field.”

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 Light

Part # BLTLIT RETIRING · NO REPLACEMENT YET

- Light intensity
- Ambient Temperature
- 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

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

Crop Light Optimization
Measure light intensity to ensure crops receive the right amount of light for healthy growth and yield.

Lighting System Validation
Verify artificial lighting and shade curtain performance using real light data.

Light Uniformity Monitoring
Identify light distribution differences across growing zones to improve crop consistency.

Scan to Download Technical Datasheet

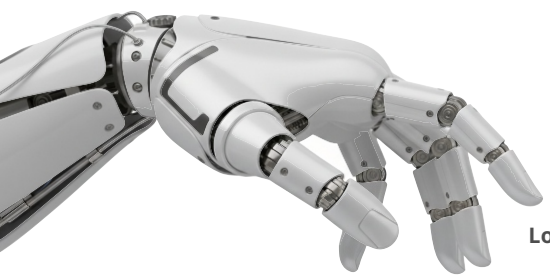
Irrigation Pressure Control
Monitor irrigation line pressure to ensure uniform water delivery and prevent crop stress.

Irrigation Fault Detection
Detect pressure drops or spikes to identify leaks, clogs, or broken pipes early.

Pump & Valve Health Monitoring
Verify proper pump and valve operation using real-time pressure data.

Fertigation Pressure Stability
Maintain stable pressure for accurate nutrient and fertilizer distribution.

Scan to Download Technical Datasheet



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