

PRODUCT SHEET

MQflex

MULTI-SENSOR DEVICE



The MQflex™ combines the flexibility to meet your unique business needs with the performance to drive results at scale.



Easily connect and manage your devices with MachineQ gateways and MQcentral, our integrated and powerful network management portal.

Flexible, Durable, and Scalable

The MachineQ MQflex multi-sensor device delivers a best-in-class LoRaWAN®-compliant sensor offering to support a variety of IoT use cases. Designed with modularity and growth in mind, the MQflex enables a host of applications, from preventative maintenance and data-rich asset tracking, to food service temperature and humidity compliance monitoring.

Engineered specifically for the MachineQ IoT network platform, the MQflex leverages custom-tailored firmware that drives superior integration, performance, dependability, and data delivery at scale.

CONFIGURABLE FOR SENSING:

- | | | |
|-------------|---------------------|----------------|
| Temperature | Humidity | Vibration |
| Water Leak | Open/Close | Orientation |
| Location | Barometric Pressure | Magnetic Field |

Features & Capabilities

- Supports up to three years of continuous use at -40°C from a single **replaceable battery**
- Configurable for a variety of use cases from a single SKU
- Supports **over-the-air firmware updates** for superior stability and performance
- Includes **multi-protocol functionality** that combines LoRaWAN's long reach and deep propagation with the speed, accuracy, and local diagnostics of Bluetooth Low Energy (BLE)
- **Configurable reporting frequency** to receive sensor data when and how you want it
- Customizable button for on-demand data generation events
- Easy onboarding through MQcentral and the MachineQ APIs, or pre-provision in bulk
- A low-profile form factor that fits seamlessly into a variety of diverse use cases

Partner With Us

To learn more, contact us at Info@MachineQ.com or visit [MachineQ.com](https://www.MachineQ.com).

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TECHNICAL SPECIFICATIONS

SENSORS

TEMPERATURE

Sensing range: -40°C to $+60^{\circ}\text{C}$
Accuracy $\pm 0.3^{\circ}\text{C}$ @ 30C

HUMIDITY

Accuracy: 3% @ 50% RH

9-AXIS IMU

PRESSURE

Operating range: 300–1250 hPa

REED SWITCH

WATER LEAK

BATTERY

Replaceable ER14505
Est. Life: 3 years @ -40°C

RF

LoRa[®]
NFC
Bluetooth Low Energy (BLE)

INSTALLATION

Adhesive
Optional screw mount

CERTIFICATION

UL 62368-3
FCC Part 15 Class B
RoHS
FDA approved food safe plastic
Optional NIST Traceable Calibration

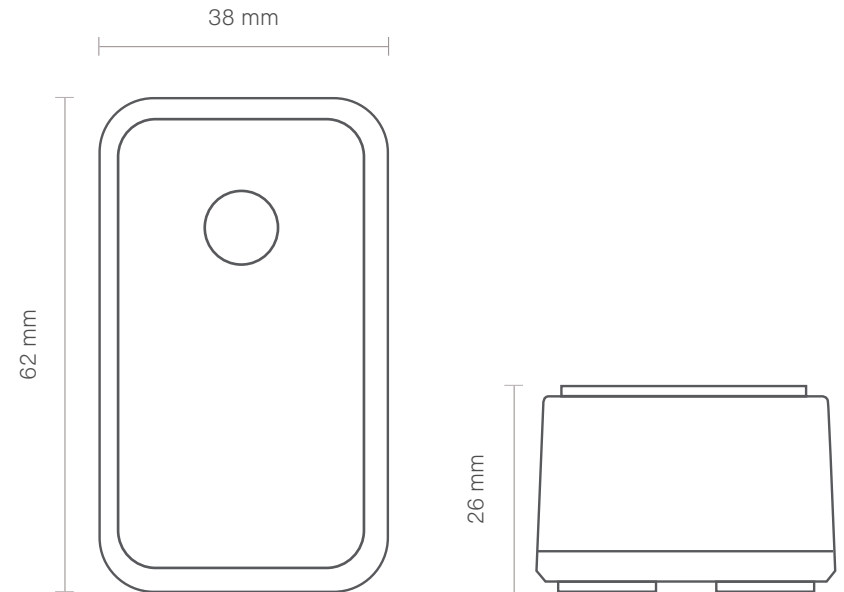
ENVIRONMENTAL

-40°C to $+60^{\circ}\text{C}$
0% - 100% RH
IP55

HARDWARE SPECIFICATIONS

DIMENSIONS

62mm x 38mm x 26mm



For EU868, AS923 and other International Deployments, please contact info@machineq.com for more details.