

INTRODUCING

MQflex™



The MQflex is a cost-effective, multi-use device designed to support a variety of business models, from use-case validation through mass implementation.




Connect your devices using MachineQ gateways and utilize MQcentral and our robust APIs to deploy your solutions and support the general health of your deployments.

Plug and play device for quick deployment

MQflex is a robust, multi-use LoRaWAN®-compliant device. It's capable of monitoring temperature, acceleration, orientation, magnetic field strength, pressure, and humidity.

The device is compact with a long battery life making it a cost-effective solution to collect data and trigger threshold detection mechanisms in a wide range of applications.

INCLUDED SENSORS

- | | |
|---|---|
|  Temperature |  Magnetic Flux |
|  Humidity |  Barometric Pressure |
|  Orientation |  Acceleration |

Features & Benefits

- Long Battery Life: 3-5 years, depending on application
- Robust Housing Meets IP67 Rating
- Pre-Provisioned to MachineQ
- Compact Size: 65mm (L) x 30mm (W) x 28mm (H)
- Highly Cost-Effective
- Wide Operating Temperature -20°C to +70°C

Do you have an innovative IoT application?

Learn how MachineQ can connect your solution and help you work smarter. Contact us at Info@MachineQ.com or visit MachineQ.com

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TECH SPECS

LORAWAN

Class A/C End Device, US915MHz
ABP and OTAA Activation

CERTIFICATIONS

FCC Part 15 Class B Approved
IC (Canada) Approved
C/UL 60950-1 Listed

INGRESS PROTECTION

Rated IP67

POWER SOURCE

Lithium battery
(non-rechargeable/replaceable)
2400mAh

PROGRAMMING INTERFACES

Over the Air update capable
via LoRa and MachineQ client

TRANSMIT POWER

Maximum +21.5dBm (conducted)

RECEIVE SENSITIVITY

Better than -131dBm (conducted,
SF12/125kHz)

OPERATING TEMPERATURE

-20°C to +70°C

SENSOR CAPABILITIES

TEMPERATURE RANGE -

-20°C to +70°C

TEMPERATURE MEASUREMENT

PRECISION +/- 1C

BAROMETRIC PRESSURE RANGE

700hPa to 1100hPa

BAROMETRIC MEASUREMENT

PRECISION

+/- 2hPa (0C to +65C)

HUMIDITY RANGE

0 to 95% RH (0C to +60C)

HUMIDITY MEASUREMENT

ACCURACY AT 25 C

+/- 3% RH (20% to 80% RH)

ACCELEROMETER RANGE

Programmable (+/-) 2, 4, 8, 16g

ACCELEROMETER MEASUREMENT

RESOLUTION 1mg

MAGNETOMETER RANGE

+/-16 gauss

MAGNETOMETER MEASUREMENT

RESOLUTION

+/- 1mgauss

GYRO METER (THREE AXIS)

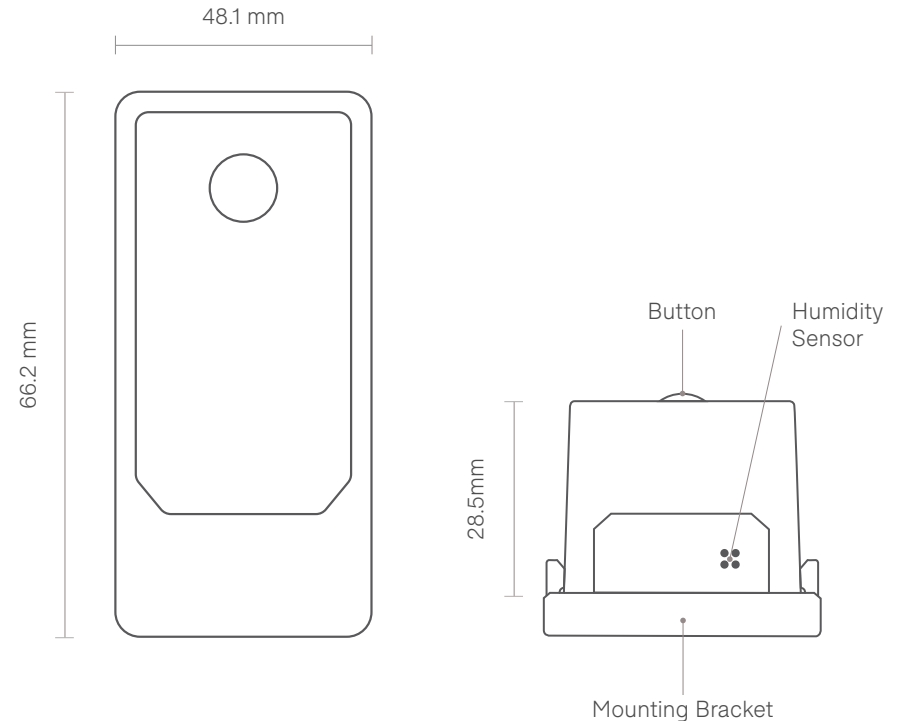
SPEED RANGE

Programmable (+/-) 125, 245, 500,
1000, 2000 md/s

HARDWARE SPECS

DIMENSIONS

66.2 mm x 48.1 mm x 28.5 mm



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