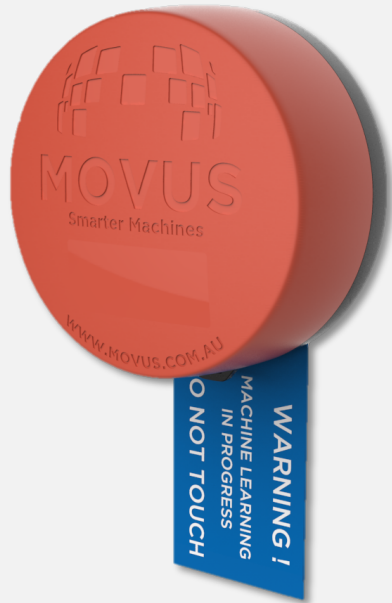


# TECHNICAL DATA SHEET

The All-in-One Equipment Monitoring Solution



**HEAD OFFICE**  
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SPRING HILL QLD 4000  
ACN 604 854 319



**IP66, FCC and CE  
CERTIFIED**



## MOVUS FitMachine®

Part Number (PN): FMFI2.x

### IP67 ENCLOSURE

Housing for outdoor and harsh conditions. Tested to "dust tight" and protected against jets of water.

### INTEGRATED WIRELESS

WiFi 802.11 b/n/g  
Connects to existing WiFi infrastructure or FitMachine Gateway. Bluetooth 5.0 to connect to smartphone.

### MAGNET MOUNTED

Designed for rapid deployment. Magnetic mounts eliminate drilling or cutting. Rare earth magnet (25kg pull strength).

### LANYARD ATTACHMENT

FitMachine can be secured via lanyard

### ULTRA-LOW POWER

Two year battery life under normal operating conditions (5 minute sample interval).

### QR CODE

QR code with unique MAC address for pairing FitMachine and equipment. Also used to gain quick access to machine data.

### PROCESSING POWER

Industry leading low power ARM Cortex M4 processor with 0.19mW / MHz.



# TECHNICAL DATA SHEET



## Sensing Modalities For Capturing Environmental Conditions

- Accelerometer
- Microphone (sound)
- Ambient Temperature
- Magnetic Field Strength
- Contact Temperature
- Humidity

Low power and ultra long life	4 <sup>th</sup> generation Texas Instruments (TI) WiFi processor Nordic Bluetooth Processor
Communication	WiFi can operate with existing wireless infrastructure Bluetooth allows direct communication with a smart phone
Wide operating temperature	Industrial temperature rated electronics for robust long term performance at -40°C to 85°C ambient
Over the air update	Reprogrammable / customisable over the air (OTA)
Wireless technology	WiFi – 802.11 b / g / n + Bluetooth 5.0
Wireless performance	Bluetooth: Range: 50m line of sight - 20m range in built environments WiFi: Range: 250m line of sight - 50m range in built environments
Sensor performance & Frequency response	Vibration and noise: DC to 16KHz Temperature sensing: -40 °C to + 85 °C Magnetic Field: $\pm 4800 \mu T$
Sensor sample rate and Collection interval	Sample rate up to 32KHz for vibration and noise Collection interval – one sample per 5 minutes standard (reprogrammable wirelessly)
Security	Local area network (WiFi) encrypted with industry standard WPA2 Sensor data additionally encrypted with HTTPS encryption with a checksum for data integrity Wirelessly reprogrammable over the air to address future zero day exploits Secure Bluetooth Communication
WiFi Configuration and setup	Factory configured to communicate with the FitMachine gateway Alternatively can be configured to communicate using existing WiFi infrastructure
Environmental	Operating temperature: -40°C to 85°C; -40°F to 185°F IP67 water/dust ingress protection – Suitable for outdoor environments Thermoplastic (ASA Luran® S 778T)
Dimensions	95mm (diameter) x 50mm (height)
Power	1 x D cell Lithium Thinoyl Chloride primary cell – 3.6v at 19Ah More than two years battery life under normal conditions with (5 minute sample interval)