

# TECHNICAL DATA SHEET

The All-in-One Equipment Monitoring Solution



**HEAD OFFICE**  
112 BOWEN STREET  
SPRING HILL QLD 4000  
ACN 604 854 319



**IP66, FCC and CE  
CERTIFIED**



## FitMachine®

Part Number (PN): FMFI 3.0

### IP66 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 (32kg pull strength).

### LANYARD ATTACHMENT

FitMachine can be secured via lanyard

### ULTRA-LOW POWER

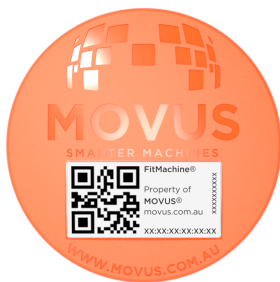
Two year battery life under normal operating conditions (15 minute sample interval).

### 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 SPECIFICATIONS



## Mounting Options



**STANDARD:**  
MAGNET MOUNTING



**ON REQUEST:**  
DIRECT M6 x 12mm  
STUD MOUNT OPTION



**ON REQUEST:**  
ADHESIVE MOUNT  
OPTION

### Sensing Modalities For Capturing Environmental Conditions

- Accelerometer
- Microphone (sound)
- Ambient Temperature
- Barometric Pressure
- Humidity

Wireless Communication	Network and Radio Standard Frequency WIFI and BT (nominal) Range Max RF WIFI Power Output Max RF BT Power Output	Network: WIFI + BT5.0, Radio: IEEE 802.11 b/g/n 2.4GHz, license free ISM band WIFI: 75m (246ft), BT 50m (164ft) 55 mW 6.5 mW
Temperature Measurement	Measurement Range Resolution	-20°C to 60°C 0.1°C
Acoustic Sound Measurement	Frequency Range	40Hz - 40KHz
Data Processing	A/D Conversion (all) Sampling Interval	16 bit 15 mins (standard)
Power	Battery Type  Estimated Battery Lifetime Storage Temperature Battery Module	2 x 3.6V AA Lithium Thionyl Chloride (LI-SOCl <sub>2</sub> ) cell – replaceable battery  2 years (depending on ambient temp, settings) 10°C to 30°C To order additional FM Battery Module, use MOVUS PN: BAFI 3.0
Environmental	Temperature IP Class	Operation -20°C to 60°C; -4°F to 140°F IP66
Vibration Measurement (overall values)	Velocity Frequency Range Detection Type	0.1 – 20mm/s DC (0Hz) – 10KHz RMS
Certifications	Radio OH&S	ACMA, FCC, CE RoHS
Physical	Weight (incl. magnet) Case Material Dimensions (excl. magnet) Mounting	0.41kg (14.46 oz) Thermoplastic (ASA Luran® S 778T) 90mm Diameter x 50mm High (3.54 in x 1.97 in) 32kg (pull strength) magnet, slotted spacer for 2x metal mounting for straps