Technical Data Sheet

MOVUS
SMARTER MACHINE MONITORING

PRODUCT: FITMACHINE | **PART NUMBER (PN):** FMFI 3.2

Your smart, all-in one
equipment monitoring solution

With 24/7 insight, you can better understand your equipment behaviour to increase asset efficiency, save money and eliminate waste through optimising your resource allocation.

FitMachine continuously monitors vibration and temperature, sending data to the MachineCloud Dashboard. Our AI compares this data against your equipment's baseline to deliver alerts when sustained anomalies occur. FitMachine promptly notifies you of any changes, allowing for quick and efficient issue resolution.

Thanks to machine learning and the ability to set custom thresholds, FitMachine can be adapted to your organisation's specific setup.

KEY FEATURES

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 instructure or FitMachine Gateway. Bluetooth 5.0 to connect to smartphone.

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

ULTRA-LOW POWER
Two year battery life under normal operating conditions (15 minute sample interval), 1 hour sync interval.

CE FCC **FCC and CE CERTIFIED**

PROCESSING POWER
Low power ARM Cortex M4 processor with 0.19mW / MHz.

MOUNTING
Designed for rapid deployment. Magnetic mounts eliminate drilling or cutting. Rare earth magnet (32kg pull strength).

STANDARD:
Magnet Mount

ON REQUEST:
Stud Mount
Direct M6 x 12mm

ON REQUEST:
Adhesive Mount

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Sensing Modalities For Capturing Environmental Conditions		• Accelerometer • Microphone (sound) • Ambient Temperature • Barometric Pressure • Humidity
Wireless Communication	Network and Radio Standard Frequency	Network: WIFI + BT5.0, Radio: IEEE 802.11 b/g/n
	WIFI and BT (nominal) Range	2.4GHz, license free ISM band WIFI: 75m (246ft), BT 50m (164ft)
	Max RF WIFI Power Output	55 mW
	Max RF BT Power Output	6.5 mW
Temperature Measurement	Measurement Range	-20°C to +85°C / -4°F to 185°F
	Resolution	0.1°C
Data Processing	A/D Conversion (all)	16 bit
	Sampling Interval	15 mins (standard)
Power	Battery Type	1 x 3.6V D Lihtium Thionyl Chloride (LI-SOCL2) cell - replaceable battery
	Estimated Battery Lifetime	2 years (depending on ambient temp, settings)
	Storage Temperature	10°C to 30°C
	Battery Module	To order additional FM Battery Module, use MOVUS PN: BADcell
Environmental	Operating Temperature	-20°C to 85°C; -4°F to 185°F
	Temperature Resolution	0.1°C
	IP Class	IP66
Vibration Measurement (overall values)	3-Axis MEMS Accelerometer Range	+- 32G
	Frequency	Range (0Hz) – 12.8KHz Sampling 25.6 kHz
	Detection Type	Velocity RMS
Certifications	Radio	ACMA, FCC, CE
	OH&S	RoHS
Physical	Weight (incl. magnet)	0.41kg (14.46 oz)
	Case Material	Thermoplastic (ASA Luran® S 778T)
	Dimensions (excl. magnet)	90mm Diameter x 50mm High (3.54 in x 1.97 in)
	Mounting	32kg (pull strength) magnet, slotted spacer for 2x metal mounting for straps

Need more information? **Get in touch with us today info@movus.com.au**