

Wireless Measurement Module

WMM-100

Code: 600-10090

Key features

- Interface for IEPE vibration sensor
- Battery operated
- Protection class IP66
- WLAN communication



WMM-100 is a wireless measurement unit for standard IEPE vibration sensors used in machine condition monitoring. The unit measures vibration signal from an IEPE vibration sensor and transfers the data to host system through standard WLAN interface. The unit is connected to a sensor or switch box with an extension cable. Several units can be synchronized via wireless network for simultaneous measurements.

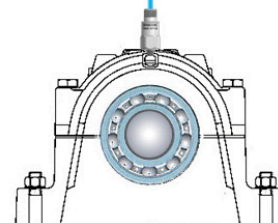
The unit has 512 MB internal memory for data buffering. This enables data logging functionality: WMM-100 can measure vibration signals either periodically based on configurable time interval, or when vibration signal exceeds pre-set vibration level, and store measured signals to buffer memory.

WMM-100 is suitable for the monitoring of most machinery in different speed ranges in e.g. the following industries:

- Pulp and Paper
- Mining and mineral industry
- Power generation
- Steel industry



Connection to remote monitoring switch box

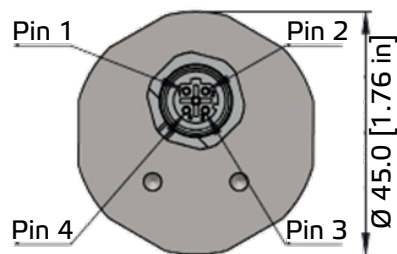
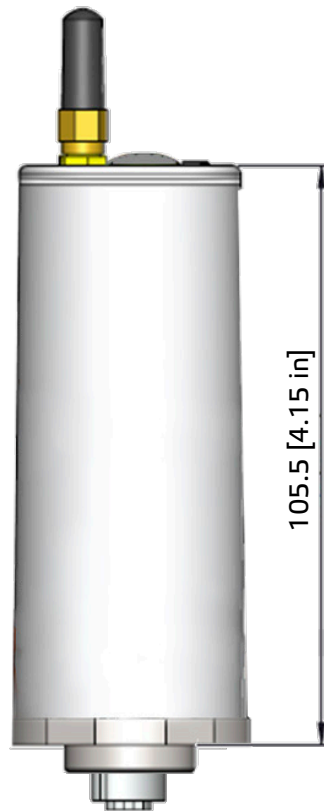
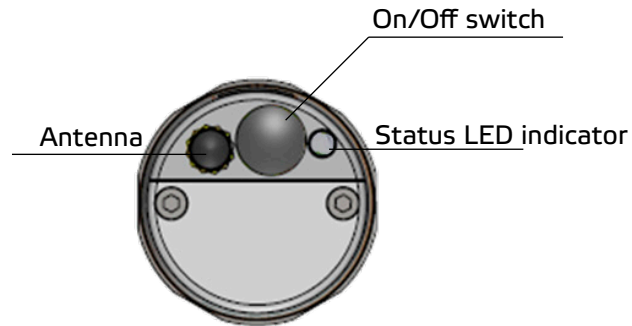


Connection to IEPE sensor

WMM-100 sensor specifications

IEPE sensor interface	Constant current for IEPE sensor	2 mA
	Input voltage range	0...20 V
Signal sampling	Sampling rate, IEPE sensor	max. 80 000 Hz
	Signal length	max. 1 000 000 samples
	Internal buffer memory	512 MB
	AD conversion accuracy, IEPE sensor	24 bits
Radio communication	Communication protocol	IEEE 802.11 b/g/n
	Communication rate	max. 72.2 Mbps
	Security	WiFi security (802.11i) WEP, WPA/WPA2 (AES-CCMP and TKIP)
Electrical	Internal battery	rechargeable 3.6 VDC, 3100 mAh (Lithium-ion)
	Power consumption at continuous use	1 W
	Grounding	mounting base grounded
Environmental	Temperature range	-20...+60 °C
	Protection class	IP66
Physical	Weight	350 g (including battery)
	Case material	AISI 316 and PET-C
	Connector	Phoenix Contact M12 SPEEDCON (4-pin)

WMM-100 sensor dimensions



- Pin 1: not in use
- Pin 2: not in use
- Pin 3: channel input
- Pin 4: ground

Accessories (optional)

Coiled connection cable with MIL connector for IEPE sensor, length 2 m	Code: 600-10130
Coiled connection cable with BNC connector for IEPE sensor, length 2 m	Code: 600-10131
Accelerometer type RVT-120 (top exit)	Code: 600-1110

Spare parts

Rechargeable battery	Code: 600-10071
Battery charger	Code: 600-10072
Antenna	Code: D202364
Seals for battery pack, 5 pcs	Code: 600-10157
2 mm Allen tool for battery mounting	Code: 600-10143