

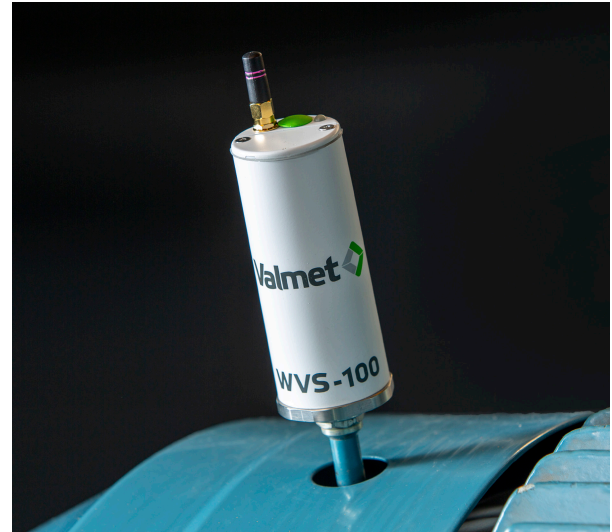
Wireless Vibration Sensor

WVS-100

Code: 600-10088

Key features

- Built-in sensing elements
 - Piezoelectric accelerometer
 - Temperature sensor
- Rechargeable battery operated
- Protection class IP66
- WLAN communication
- Easy to install



WVS-100 is an industrial wireless vibration sensor for mechanical condition monitoring. The sensor can be used with Valmet DNA online condition monitoring system as well as with Valmet Maintenance Pad portable analyzer.

WVS-100 features a temperature sensor and built-in piezoelectric accelerometer, capable of capturing even the earliest indications of a possible fault.

WVS-100 measures, carries out A/D conversion and signal conditioning and transfers digitized vibration signals to a host system via standard WLAN connection. The sensor is powered by rechargeable battery.

WVS-100 has 512 MB internal memory. Therefore, the sensors can be used as an independent datalogger to measure vibration signals periodically based on configurable time interval.

WVS-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

WVS-100 sensor specifications

Sensing element	Sensing element design	Piezo-Ceramic, single-axis
	Amplitude range	±20 G peak
	Amplitude nonlinearity	≤1 %
	Frequency range (±3 dB)	0.5 ... 10 000 Hz
	Overload limit (shock)	5000 G peak
Signal sampling	Sampling rate	max. 80 000 Hz
	Signal length	max. 1 000 000 samples
	A/D conversion accuracy	24 bits
	Internal buffer memory	512 MB
Radio communication	Network	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 3.7 VDC, 3100 mAh (Lithium-ion)
	Power consumption at continuous use	1 W
	Grounding	mounting base grounded
Environmental	Installation temperature	-20...+60 °C
	Protection class	IP66
Physical	Weight	350 g (including battery)
	Case material	AISI 316 and PET-C
	Mounting	¼-28 UNF mounting thread

WVS-100 sensor dimensions



Accessories (optional)

Mounting tool for WVS-100 sensor

Code: 600-10087

Mounting stud

- 10-32 UNF / M8x1,25
- ¼"-28 UNF / M8x1,25
- ¼" UNF - ¼" UNF



Code: 600-10154

Code: 600-10147

Code: 600-10148

Flat magnet

- Ø 24 mm
- 1/4-28 stud



Code: 600-10142

Two pole magnet, medium

- Ø 38 mm
- 1/4-28 stud



Code: 600-10141

Two pole magnet, large

- Ø 51 mm
- 1/4-28 stud



Code: 600-10742

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