



Wireless Vibration And Temperature Sensor

Overview -

ncd.io wireless vibration sensor is designed to monitor machine acceleration, velocity, displacement, frequency, and temperature as well as raw time domain data. This vibration sensor is powered by AA batteries and can send data over a long distance using a wireless mesh network.

Specifications -

Number of Axis	3
Acceleration Range	+/- 16g
Acceleration Resolution	16 bit
Bandwidth	0- 6.4kHz

Sample Rate	100Hz-25.6kHz
Probe Operating Temperature	-40C - 105C
Probe Length	2 Meter Shielded Cable

Mode Of Operation

Processed Mode	Acceleration, Velocity, Displacement, Frequency, and Temperature Data
Raw Mode	Raw Time Domain Acceleration and temp data
Processed and Raw On Request	Combination of Both Modes

Temperature Sensor

Temperature Sensor Range	-40C - 105C
Accuracy	+/- 1C

Wireless Radio Specification

Wireless Technology	Industrial Digi Mesh
Indoor Wireless Range	Upto 1200 Feet
LOS Wireless Range	2 Mile/ 3 KM
Wireless Frequency	900MHz, 868MHz, 2.4GHz

Enclosure Specifications

Main Box IP Rating	IP65, NEMA 1,2,4,4X,12,13, UL-508
Material	Polycarbonate
Material Flammability Rating	UL94 HB
Port IP Rating	IP68
Material	Stainless Steel
Main Box Temperature Rating	-40C - 80C

Power Specification

DC External Power(Optional)	5-12V DC
Batteries (non rechargeable)	AA (L91)
Power Consumption in Sleep Mode	80uW
Power Consumption in Active Mode	250mW

Installation and Mounting Specifications

Main Box	A.	Magnet Mount
	B.	Screw Mount
Probe	A.	Magnet Mount
	B.	1/4-28 UNF
	C.	1/4 NPT

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