

Wireless Vibration Sensor

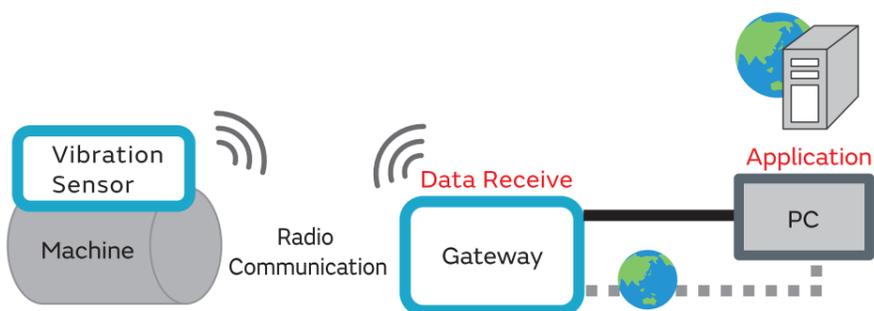
Wireless Vibration Sensor for condition monitoring Moving from reactive maintenance to predictive maintenance



Condition monitoring of roller element bearing machines such as pumps and motors

- Avoid unplanned downtime due to machine failure
- Improve efficiency of daily maintenance work

Applications



- Vibration data transmission
- Alert based on user defined threshold

Features

- Wide vibration detection range : 12 - 10,000Hz
- High Sensitivity that can detect small vibration
- Non-intrusive installation by battery operated wireless connection
- Small package at affordable cost
- Wide communication coverage with proprietary SubGHz radio
- Attachment by magnet or screw
- Water and dust proof package (IP65)

Specifications

Part Number	LBAC0ZZ1LZ	
Size (Typ)	37mm×24mm×38mm(H)	
Weight	45g	
Communication Interface	Radio (Japan Config)	Proprietary SubGHz Radio (ARIB STD-T108 Compliant) Center Frequency: 923.7MHz~926.9MHz Output Power: 20mW
	Range	200m (Line of Sight) (*1)
	Indicator	LED Red 1pc, Green 1pc
Configuration Interface	Push Button	1pc
	AMR Switch	1pc
Measurement Parameter	Peak Frequency (top 5), Peak acceleration (top 5), RMS, Kurtosis, Temperature	
Sensor	Detection Frequency	12.5~10,000Hz
	Acceleration	Absolute Max Rating ±30G Resolution: 28mG
	Temperature	0~85°C Resolution: 0.1°C@25°C
Measurement Accuracy (Typ)	Vibration	±3dB
	Temperature	±1°C@25°C
Power Source(*2)	Battery	1/2AA Lithium Battery 1pc
Battery Life(*3)		5 years (*4)
Current Consumption	30mA(Tx mode), 5uA (sleep mode)	
Water Resistance	IP Grade	IP65
Operating Range	Body (Ambient)	-10~60°C <90%RH (non-condensing)
	Sensor (Surface)	-10~85°C <90%RH (non-condensing)
Accessories	Battery Cover 1pc, Battery 1pc	
Installation Method	Magnet or Screw	

Open to work with 3rd party application for analytics and dashboards which may provide below.

- Data driven maintenance planning
- Feedback on machine condition
- Alert service before reaching critical state



(*1) Reference only. Subject to change according to surroundings.

(*2) 1pc included.

(*3) Reference only. Subject to change according to operation setting such as report interval and operating temperature.

(*4) Reference only. Condition: Report Interval 30 minutes, Operating Temp @25 °C, No repeater function & wake up function.