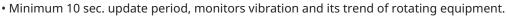
Wireless vibration sensor FN510 (ACAI type)

Field Wireless Multi-Function Module





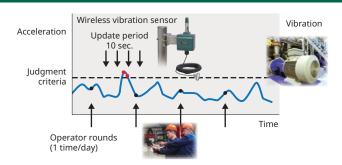
- Battery powered, for continuous and temporary measurements.
- Compatible with ISA100 (IEC62734) wireless infrastructure.

System configuration			
GX/GP/GM Modbus YFGW410 YFGW510	FN510		

Typical specifications				
Number of input channels	1			
Sensing mode	Acceleration, Velocity, Velocity LPF 160 Hz			
Measurement data	Peak, RMS, Peak/RMS			
Frequency range	10 Hz to 10 KHz			
Measurement range	Acceleration: 0 to 300 m/s² Velocity: 0 to 160 mm/s			
Update period	10 sec. to 3600 sec.			
Battery life	2 years (update period 10 sec.) 10 years (update period 60 sec.)			
Explosion protect type	Intrinsically safe device: FM (US and Canada) IECEx and ATEX			

Benefits of introduction

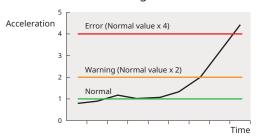
- · Enables continuous observation, that complements operator rounds.
 - Operator rounds: 1 day to 1 week period Wireless monitoring: 10 sec. period
- Reduces patrols in hazardous area.
- · Monitors equipment condition under high load.
- Uploads measurement data directly to host system.



Application examples

DCS (CENTUM), Recorder (GX/GP/GM), PC running Modbus client application can be host system.

 Trend monitoring Observes transition of vibration condition. Predicts maintenance timing.



(Judgment criteria on the figure is for reference only)

· Absolute judgment Compares measured value with judgment criteria on the host system to detect abnormality.

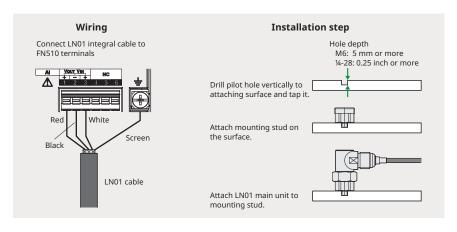
Velocity RMS (mm/s)	Typically Electric motor up to 15 kW	Typically Electric motor 15 kW to 75 kW	Large machine mounted on a rigid base	Large machine mounted on a soft base
45 33				
28	_	Danger	Danger	Danger
18	Danger	Danige.		
11.2				Alert
7.1			Alert	
4.5	Alert	Alert		
2.8				
1.8				
1.12	Good		Good	Good
0.71		Good	2200	
0.45				
0.28				

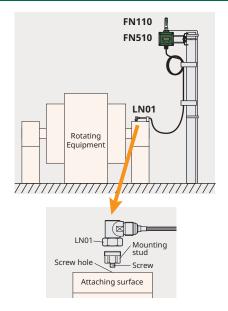
Velocity measurement range for frequency of 10 Hz to 1 kHz Created with reference to ISO 10816-1: 1995

Represented by:

Installation and wireling

- LN01 is screwed to the target object with the mounting stud.
- Install the FN110 at least 1.5 m above the ground or floor.
- · Confirm that each field wireless equipment can see the antenna of other devices which locate within its own communication range.





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