Specifications (e-無線巡回)

Master device	
Power supply	AC 90-132V (220V Adjusting)
Wireless communication	920MHz specified low power radio (15 channel)
Measuring period	can select 3min,5min,10min,15min,60min
Communication distance※1	Indoor=about 100m, Outdoor=about 1km
Max connectable counts of slave device (per 1unit of master device)	3min period=30 units, 10min period=100 units, 60min period=600units
Max connectable counts of master device (Max of system)	20 units/system(max connection counts of slave device is 12,000 units \(\times 3 \)
Installation environment 32	about 0°C∼40°C
External size	129mm × 138mm × 32mm(except for antenna)
Weigt	250g (except for AC adapter)

PC for condition check(Recommended spec)	
OS	Windows 10, 8, 7 (32bit, 64bit)
Memory	more than 4GB
HD space	more than 250GB

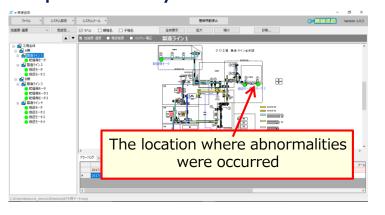
- X1 Direct-distance without any interruption. It fluctuates with surrounding environment.
- X2 It is limited to the environment without corrosive gas.
- 3 If installed location of master device is in the closed space, master device=15units, slave device =9000units(Max)

Slave device(Sensor BOX)		
Power supply	D alkali battery x 2pcs	
Wireless communication	920MHz specified low power radio	
Battery replacement cycle	If measuring period is 3min, about 3 years. (It's dependent on installation location of slave device)	
Installation environment※2	about 0°C∼40°C. Dust proof & Water proof (IP64)	
External size	108mm × 178mm × 74mm	
Weight	650g (including D battery)	
Slave device(Sensor part)		
Sensor	IC temperature sensor / 2 units of MEMS IC 3-axis acceleration sensor	
Cable	5m(standard) x 2pics	
External size	22mm x 46mm x 22mm, including M6 screw & Neodymium magnet	
Installation environment※2	about −40°C ~105°C	
Slave device(Temperature sensor part)		
Measuring range	-40°C∼105°C	
Slave device(Acceleration sensor part)		
Frequency band	X,Y-axis=2.6KHz, Z-axis=600Hz	
Measuring range	-16~16G	
Measuring value	Peak value, RMS value, Crest factor value	

Open-K-eM(Option software)

When slave device is installed more than 20 units, we recommend to use it.

This software can link to facility layout and it identifies the location where abnormalities were occurred. Moreover, additional software which link to facility picture & dairy maintenance record can be added.





- To use this product safely, please read instruction manual before using.
- All company and product names mentioned are trademarks or registered trademarks of the respective companies. And Windows7/Windows8/Windows10 are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
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NIPPON PAPER GROUP

Selling agency



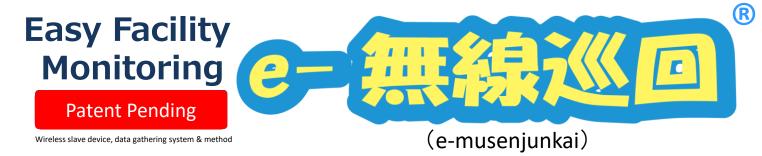
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Manufacturer



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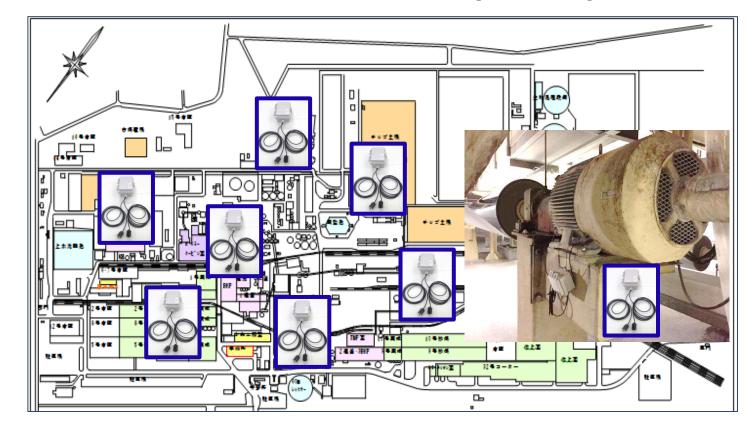
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http://www.npunitec.co.jp
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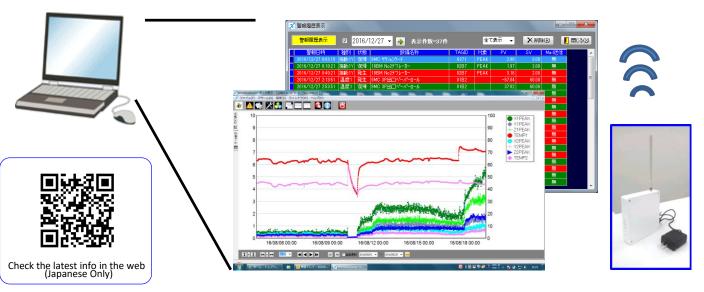


Continuous monitoring of facility EASILY & LOW PRICE!

Attach to Rotary machine/Electric motor such as Compressor, Separator, Air conditioning facility, Washing equipment, Hydraulic pump. Easy to add slave devices as needed.

Monitor Temperature & Vibration acceleration at all time with wireless(920MHz)



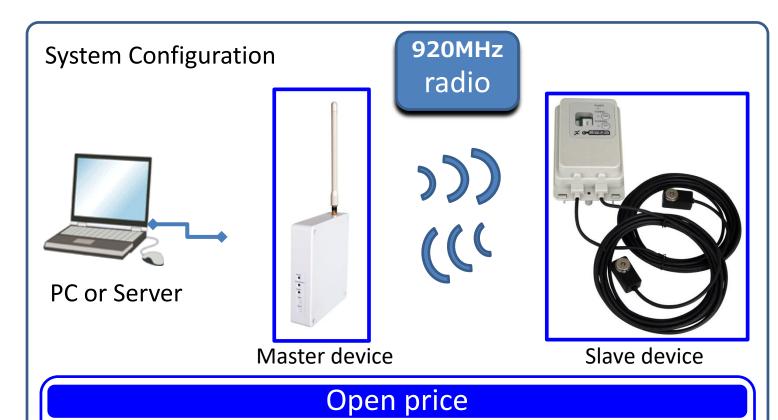


Easy Facility Monitoring



As there are many Rotary machines and Electric motors in the factory, Daily patrols is necessary for stable operation but it is required to have hard labor & experienced skill.

Our system can take care of patrol instead of workers, and visualize facilities condition by digitalization. It can help to check signs of abnormality & trouble.



Product Features

- OMeasure Temperature & Vibration acceleration with wireless(920MHz), and grasp facilities condition at a remote location from facilities.
- OWiring work is not required, and it can be installed at high-place & the place where is difficult to access.

(can install by M6 screwed or strong magnet)

 \bigcirc Data is collected into PC \Rightarrow visualize facilities condition.

Minimum hardware configuration: Master device 1 unit, Slave device 1 nuit.

(PC or Server & LAN cable & Network hub is required separately.)

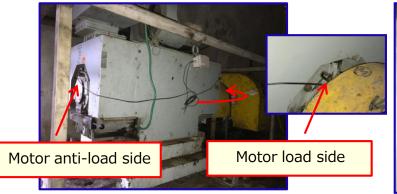
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XIt may cost additional charge due to installation location.

- OIf upper and lower limit alarm is set, you can check the abnormal trend timely. E-mail notification is also available(Option).
- ○920MHz radio⇒ It can cover wide area in the factory.
- The function is restricted to minimum to make it possible to provide at low cost.

Introduction example

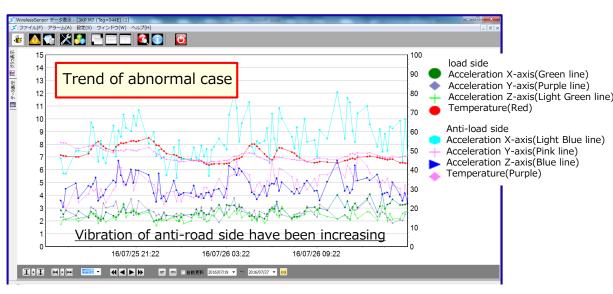
NIPPON PAPER INDUSTRIES CO.,LTD. "H" factory in Japan Example of a defect: Bearing of big motor



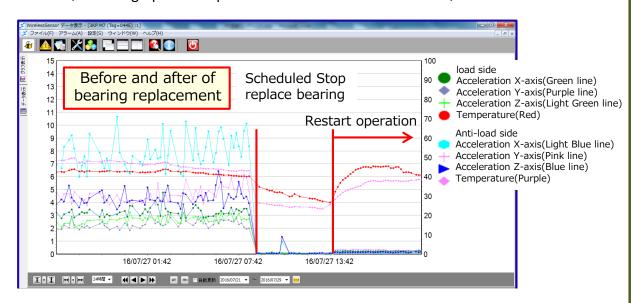


Big motor

Detailed picture of Bearing



 \uparrow Trend graph of Temperature & Vibration acceleration \downarrow



- Abnormal vibration was detected in the received data, then stopped the line. Damage was detected at the outer race of motor load side (Ref: Detailed picture of Bearing).
- After replacement, vibration value was reduced and returned to stable operation.
- By installing this product, successfully maintain the machine by stopping the line as planned.