



ONLINE CONDITION MONITORING SYSTEMS

HELP YOU TO REALIZE PREDICTIVE MAINTENANCE

PRODUCT SPECIFICATION

WIRELESS VIBRATION AND TEMPERATURE SENSOR RH505

- Internally acceleration and temperature sensor, collect velocity, acceleration, displacement and temperature signals
- The vibration signal can be displayed as spectrum and waveform in software.
- Zigbee communication, for on-site use specially
- Strong anti-jamming capability, long distances transmission from data collector according to real industrial conditions.
- Diameter 42mm*h65mm, small volume, easy to fix and maintain.
- Low battery consumption design collect data by every two hours, sustainable work for 2 years or longer.
- Intelligent self-inspect function, warning for abnormal any time, saved time to check on site.
- ExiallCT4, can be sued in 0 area,IP67,waterproof, dust-proof.



RH505 WIRELESS VIBRATION AND TEMPERATURE INTEGRATION SENSOR

Vibration Measurement Parameter

Vibration Range	±50 g
Linearity	1%
Frequency Range (±3dB)	2~15kHz

Temperature Measurement Parameter

Temperature Range	-40~125 °C
Temperature Accuracy	±1 °C (-40°C~125°C)

Electrical and Structure Parameter

Power Supply	Lithium - thionyl chloride battery, 3.6V, 3.3Ah
Communication Method	2.4GHz IEEE 802.15.4
Dimension	46 mm × 94 mm (Diameter * Height)
Weight	188 g

Environment Parameter

Working Temperature	-40~70 °C
IP grade	IP67

WIRELESS TRI-AXIAL VIBRATION AND TEMPERATURE SENSOR RH605



WIRELESS TRI-AXIAL VIBRATION AND TEMPERATURE SENSOR RH605

Vibration measurement parameter

Vibration range	One piezoelectric: ± 50 g (Peak value) Two MEMS: ± 16 g (Peak value)
Linearity	1%
Frequency response	Piezoelectric: 2-20000Hz (± 3 dB) MEMS: 2-1000Hz (± 3 dB)
Analysis frequency	Piezoelectric 500Hz, 1000Hz, 2000Hz, 5000Hz, 10000Hz, 20000Hz MEMS: 500Hz, 1000Hz
Long waveform acquisition	Piezoelectric: Sampling length: 256K, 512K, 1M, 2M Analysis frequency: 5000HZ, 10000HZ, 20000HZ
Measuring definition	Piezoelectric direction: Sampling length 1K, 2K, 4K, 8K, 16K, 32K, 64K, 128K MEMS direction: Sampling length: 1K, 2K, 4K, 8K, 16K
Indicator collection	Supported
Alarm	Supported

Temperature measurement parameter

Temperature range	-40~125 °C
Temperature measurement accuracy	± 1 °C (-40°C~125°C)

Electrical and structural parameters

Power	Lithium-thionyl chloride battery 8500mAh
Way of communication	2.4GHz IEEE 802.15.4
Transmission distance	Interference free access 300m
Size	46.5 mm \times 93.6 mm (Diameter \times height)
Weight	About 210g
Mounting thread size	Metric M6
Installation method	Bolt mounting or metal gluing

WIRELESS DATA COLLECTOR RH560

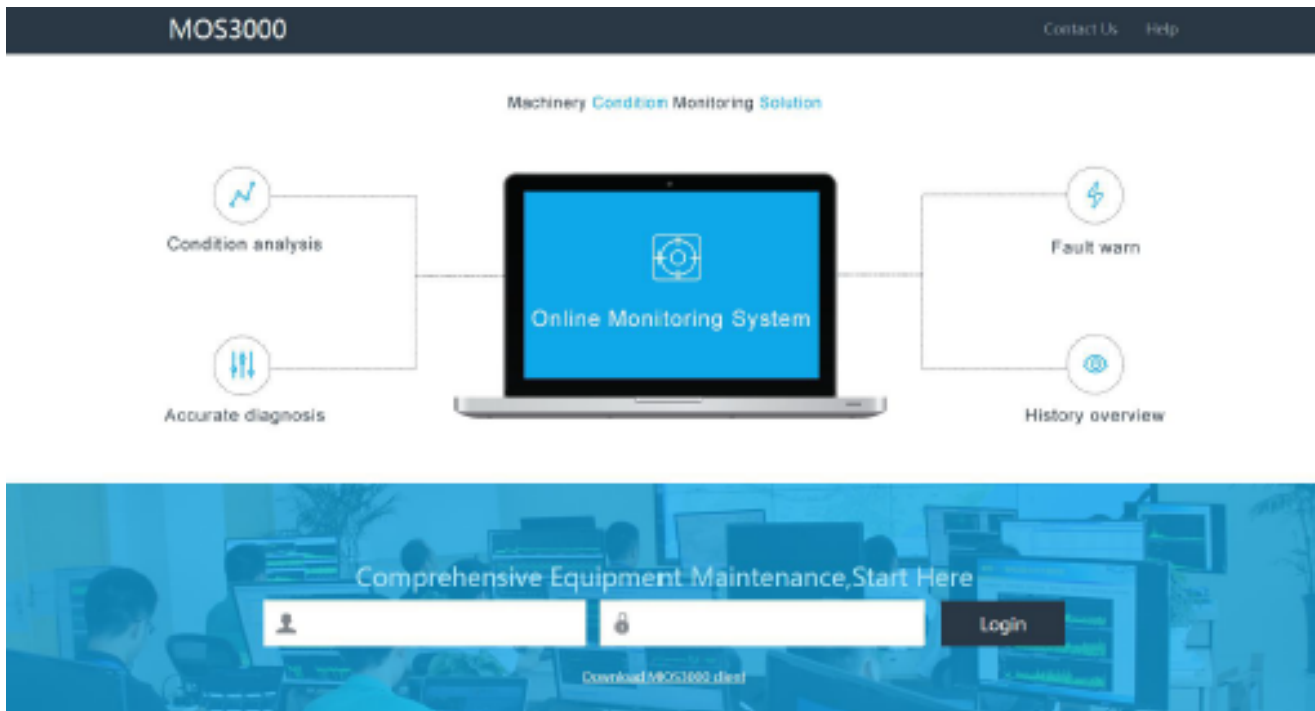


3G/4G, optical or network data transmission.
Anti-explosion design(ExdIICT4), suitable for ZONE 0, ZONE 1 and ZONE 2

RH560 WIRELESS DATA COLLECTOR	
Input and output	
Communication with Sensor	2.4GHz IEEE 802.15.4
Indicator LED	Total 3 pieces (working, communication, abnormal status)
Maximum Number of RH505 connecting	60 unit
Electrical and Structure Parameter	
Power Supply	220V AC or Lithium - thionyl chloride battery 3.6V 38Ah
Dimension	203 mm × 82 mm × 260 mm
Weight	3 kg
Mounting	Hanging or fixation through holder
Environment Parameter	
Working Temperature	-40~70 °C
IP grade	IP66

MOS3000 SOFTWARE FEATURE

Webpage, can view machine condition anytime, anywhere.



Tree structure, Easy to check by Admin, plenty of analysis tools, trend, waveform, spectrum, envelope, waterfall etc.

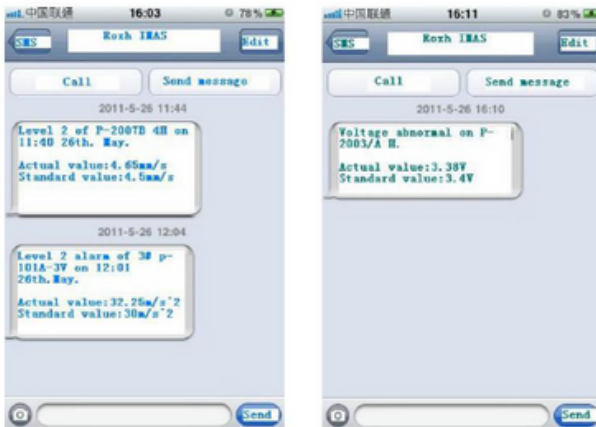


MOS3000 SOFTWARE FEATURE

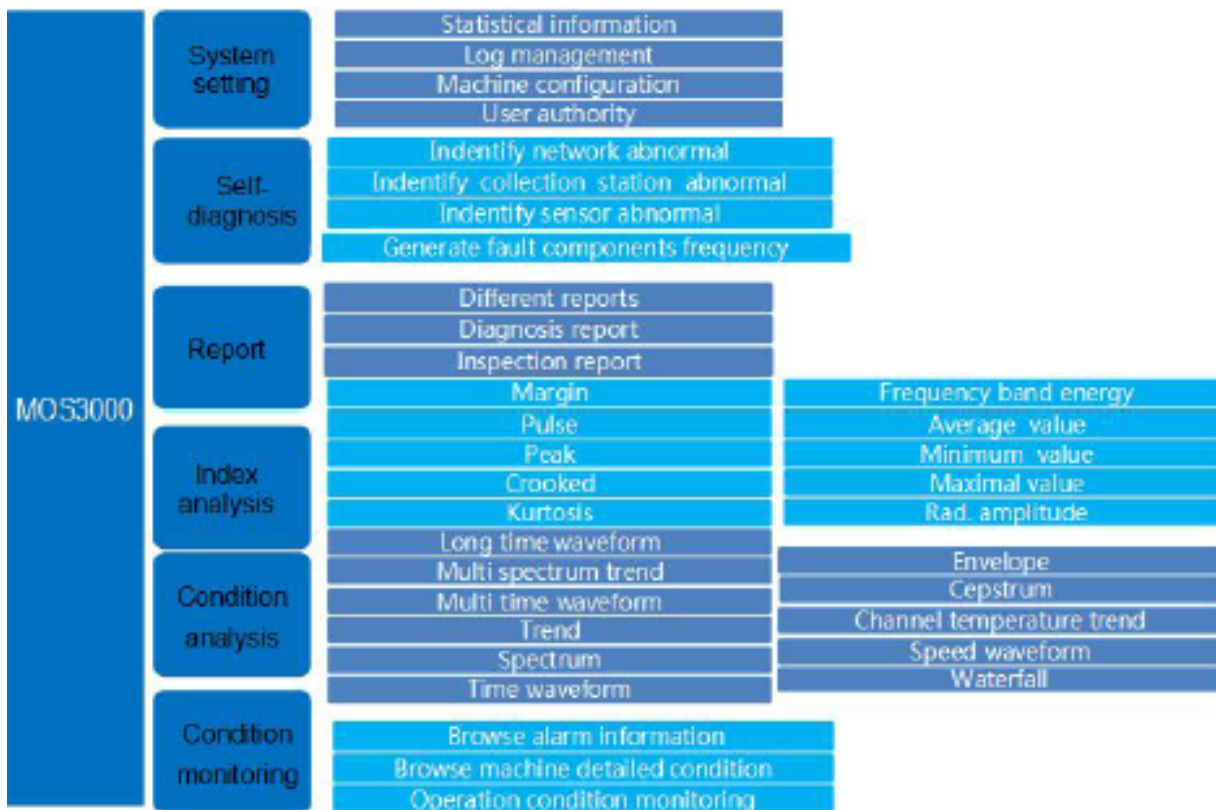
MS/Email A, learn condition anywhere

XX Machine 2-level alarm[2019/01/26 14:24]		
Measuring point	Temperature	Level
3	22.000	2

XX Machine 1-level alarm[2019/1/26 12:01:56]			
Measuring point	Daq Definition	Overall value	Level
2	8k Vel. Wfm(120-60000)	0.466	1

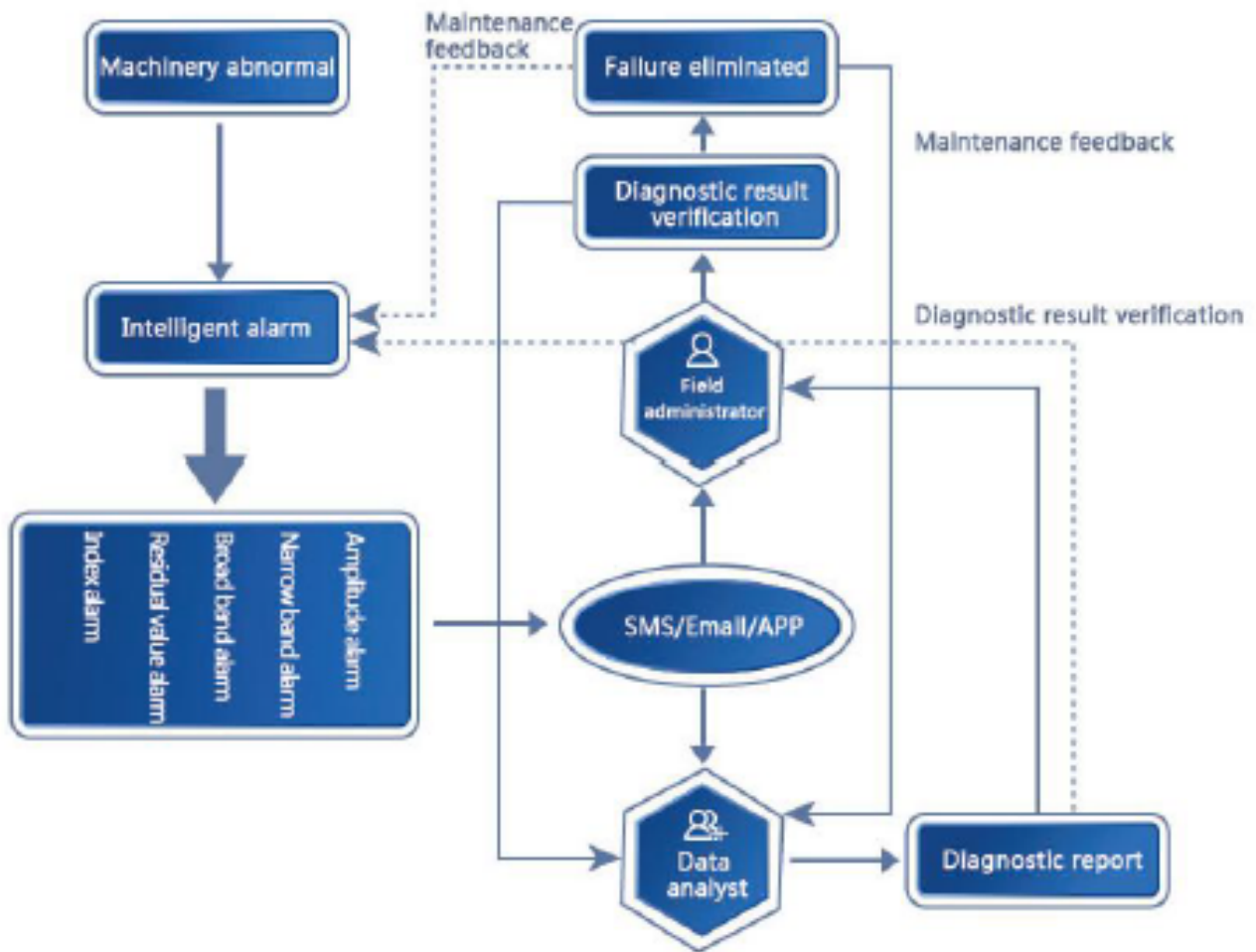


Intelligent Machinery Condition Monitoring Solution



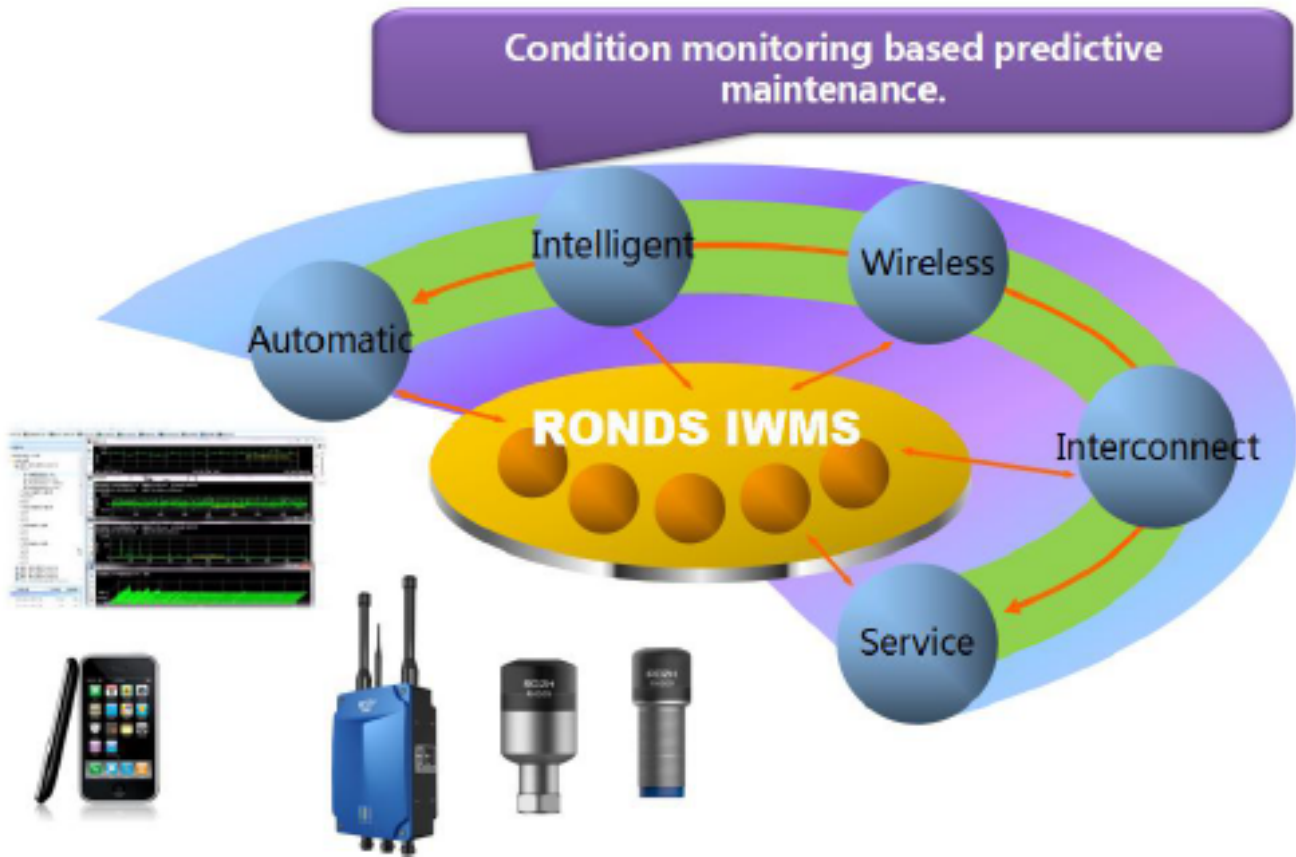
MOS3000 SOFTWARE FEATURE

Intelligent alarm and response system



MOS3000 SOFTWARE FEATURE

System advantages



A complete unit system contains:

1 pc data collector RH560

2 pcs data collector antenna

1 pc disk with MOS3000 and user manuals

n pcs wireless vibration and temperature sensor RH505 1pc

wireless speed sensor RH509

1 pc Certificate of approval

1 pc Warranty card

APPLICATIONS



Water Treatment Industry

Clarifier unit
Blowers
self-farming pumps
vertical pumps



Mining Industry

Various fan
Water cooler
Crusher, conveyor belt
Ball mill, Screener



Chemical Industry

Various pumps group
Various compressor group
Various air fan



Metallurgy Industry

Mill, Crusher, Mixing Machine
Belt conveyor, winch, elevator
various air fans, pumps and conveyor
Silking machines



Wind Energy

Double fed wind turbines
Direct drives wind turbines
Semi direct wind turbines



Cement and Tobacco Industry

Various fans, mill, crusher and conveyor
Mixing machine rotary kiln
other rotatory machine