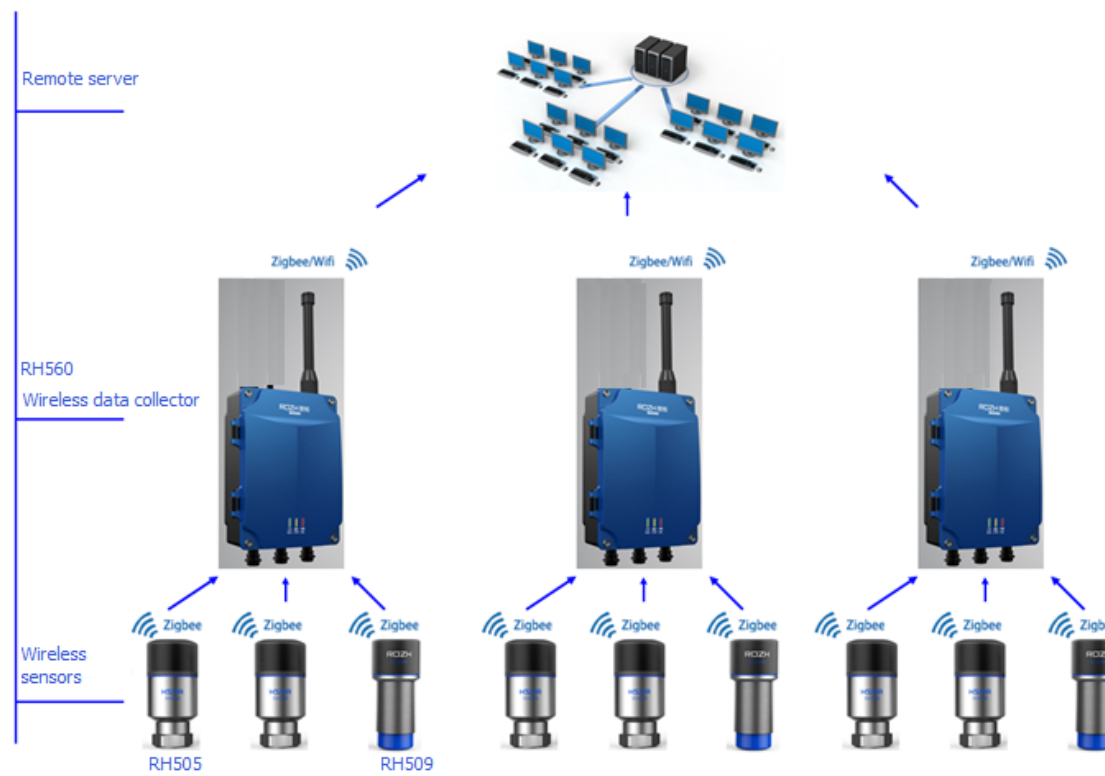


RH560 Wireless Condition Monitoring System

Topology:



Features:

Entirely Wireless

- Entirely wireless condition monitoring system. No cable laying, makes the installation procedure be never so easy.

Professional Design

- EXIA intrinsic safety design is specialized for petrochemical or mining field, replace the old heavy explosion proof box and simplify the installation procedure.
- Low consumption, IP66 protection degree.
- Professional remote diagnosis service.

Intelligent Monitoring & Analysis

- Integration of vibration, temperature and speed measurement, realize the monitoring of both constant and variable speed rotating machines.
- Variety of Monitoring Graphs(Overall View, Time Waveform, Spectrum, Trend, Waterfall, Order Analysis and so on)
- Detailed Data List(Characteristic value list, Signal statistical list, Alarm data list, Maintenance records list and so on)

Advanced Data Storage

- Multi data measurement strategies: synchronous collection, speed triggering collection, alarm collection
- Intelligent data storage capacity, avoid the data loss caused by power off or network disconnection

Good Scalability

- Multi communication modes are available: Ethernet, optical fiber, Wifi and so on, which can be widely used in various industrial fields.

Specification Sheet:

RH505 Wireless Vibration and Temperature Integrated Sensor	
Vibration Measurement Parameter	
Vibration Range	±50g
Linearity	1%
Frequency Range (±3dB)	2~15kHz
Sampling Frequency	1280Hz~51.2kHz
Analysis Frequency (Hz)	500Hz,1kHz,2kHz,5kHz,10kHz,20kHz
Sampling Length (Long Time Waveform)	Maximum 2M
Sampling Length (DAQ Definition)	1K,2K,4K,8K,16K,32K
Temperature Measurement Range	-40~125 °C
Temperature Measurement 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
Transmission Distance	300 Meters (No signal interference, no barrier)
Dimension	46 mm * 94 mm (Diameter * Height)
Weight	188g
Mounting Screw	M6
Mounting	Bolt or Metal Glue
Environment Parameter	
Working Temperature	-40~70 °C
IP degree	IP67
Explosion Proof Degree	ExiaIICT4 (Be suitable for Zone 0, Zone 1 and Zone 2)
RH509 Wireless Speed Sensor	
Performance Parameter	
Speed Measurement Range	60~3000 RPM
Speed Measurement Accuracy	±0.5 RPM
Response Distance	0-15 mm
Electrical and Structure Parameter	
Power Supply	Lithium - thionyl chloride battery, 3.6V 2.4Ah

Sensor Type	Eddy current
Communication Method	2.4GHz IEEE 802.15.4
Transmission Distance	300 Meters (No signal interference, no barrier)
Dimension	37 mm * 94mm (Diameter * Height)
Weight	85g
Mounting	Fixation through holder
Environment Parameter	
Working Temperature	-40~70 °C
IP degree	IP67
Explosion Proof Degree	ExiaIICT4 (Be 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
Communication with Server	Ethernet, Optical fiber
Indicator Light	Total 3 pieces (working, communication, abnormal status)
Maximum Number of RH505	60 pieces
Maximum Number of RH509	1 piece
Electrical and Structure Parameter	
Power Supply	220V AC or Lithium - thionyl chloride battery 3.6V 38Ah
Dimension	203 mm * 82 mm * 260 mm (Length * Width * Height)
Weight	3 kg
Mounting	Fixation through holder
Environmental Parameter	
Working Temperature	-40~70 °C
Electrostatic Discharge Immunity	IEC61000-4-2 4: Contact ±8kV, Air ±15kV
Surge Protection	EN61000-4-5: ±4kV
IP degree	IP66
Explosion Proof Degree	ExdIICT4 (Be suitable for Zone 0, Zone 1 and Zone 2)

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body