

RH503 wireless sensor/detector

RH503 wireless sensor is applied to acquiring temperature signal and vibration signal in the case of measure point dispersed widely and have difficulty in cable wiring, wireless transmit signal to the monitor and management center. It will contribute to saving a great amount of work for cable wiring, reducing the workload on site and difficulty in monitor the equipment dispersed widely, very convenient to maintenance.



Features

- Wireless data transmission, save a great amount of work for cable wiring for signal transmission, power supply and network; Greatly reduced the practical implement difficulty of online monitoring, especially for the on site implementation of anti-explosion fields.
- Used to collect acceleration、velocity、displacement and waveform data, with maximal 6400 lines spectrum analysis capacity.

- Assigned 2.4GHz free frequency span as communication transmissions, powerful anti-jamming performance, more convenient for industrial on site using.
- Design of the lower consumption; use recommended standard configuration, continuous to work for about two years.
- Small volume, very convenient to mounting on various industrial fields.
- Possess high-capacity and “black box” function

Main technical parameters

Parameter	Index	Remarks
Vibration measurement		
Acceleration range	30g	
Frequency range	5~10KHz	
Linearity	1%	
Resonant frequency	16KHz	
Transverse Sensitivity	≤5%	
Electrical Isolation	$>10^8 \Omega$	
Impact limit	1000g	
Sensing Geometry	Shear	
Signal type	Acceleration, velocity, displacement	
A/D conversion	24 bit	
Waveform sampling length	Max. 256K	
Lines	800、1600、3200、6400	
Wireless communication		
Communication type	Zigbee	
Communicate frequency	2.4GHz	
Transmission distance	150 meters (plane distance)	

Basic index		
Dimensions	Height 80mm, diameter 40mm	
Screw thread	6mm	
Housing Material	Base: 316 L stainless steel Top: Aluminium alloy	
Power supply	Three batteries (2/3AA)	About 2 years
Protection grade	IP65, waterproof, dustproof	
Weight	220g	
Storage capacity	512Kbytes	
Working temperature	(-35~70) °C	The surface temperature can reach to 120°C
Anti-explosion		
Anti-explosion identification	Exia II CT4	Used for 0 area, 1 area, 2 area.
Temperature measurement		
Measurement range	(-20~120) °C	