

## INTELLIGENT ROTATIONAL SPEED MONITORING AND PROTECTION INSTRUMENT

**JM-C-3 series intelligent rotational speed monitoring and protection instrument** is mainly used to measure rotational speed of rotary machinery and monitor negative rotational speed. It provide Zero rotational speed, positive- negative rotation, alarm and risk switching value output, Arbitrary setting of range, alarm, risk and overspeed values, Zero rotational speed monitor can accurately measure low speed.



**JM-C-7F The wall-hanging negative rotational speed monitoring and protection device** applies aluminum alloy chassis with protection degree P56. The device is used to continuously monitor and measure rotational speed of various machines, Highly intelligent design with panel operation of parameter setting.



**JM-C-5S Rotational Speed Monitoring and Protection Instrument** is mainly used for real-time monitoring of rotary machinery. Sensors can be selected according to actual situations With easy and reliable installation the device can monitor rotary machinery with equal teeth ranged from 1 to 120, and the measurements can be accurate to one round per minute.



## DEMARCATED CALIBRATION EQUIPMENT SERIES

### JM-3B vibration calibration device

It can demarcate different kinds of vibration sensor. For example, piezoelectric acceleration sensor, magnetic speed sensor and eddy current sensor. It can demarcate kinds of vibration test instruments, vibration monitoring system and data collecting system, which consist of the above sensors. The used static calibration table has been specially modified, so it is different from other static calibration tables. When the rotating micrometer changes its displacement, the test table connected to it does not rotate, but only do linear movement. Which always keeps the test table vertical to the eddy current sensor. Therefore, the calibration degrees are greatly improved.



### JM-b-63 Integrated Vibration Measuring

Used for measuring the bearing bush vibration of the rotary machinery (absolute vibration), 100 pcs data storage read functions, Manual/auto switching off function, Amplitude, speed, acceleration switching function, Manual/auto circulation read and measuring data save function, Low battery display function.



### WZ-JY2 rotation speed calibration device

This calibration device can provide standard rotation speed signal under different conditions for you. Calibration rotational speed range: 0.5-6000r/min

Rotational setting range: 50 -6000 r/min, Calibration rotational speed accuracy:0.03%



### Axial displacement static calibration device

This device is used for the ex-factory calibration and is a necessary tool for user acceptance of eddy current displacement sensor linearity. Calibration range: 0 -10mm Test-piece material: AISI4140 (42CrMoA steel) or 45# steel. Test-piece diameter: Ø 75mm, Calibration standard: micrometer, Calibration accuracy: micrometer accuracy.

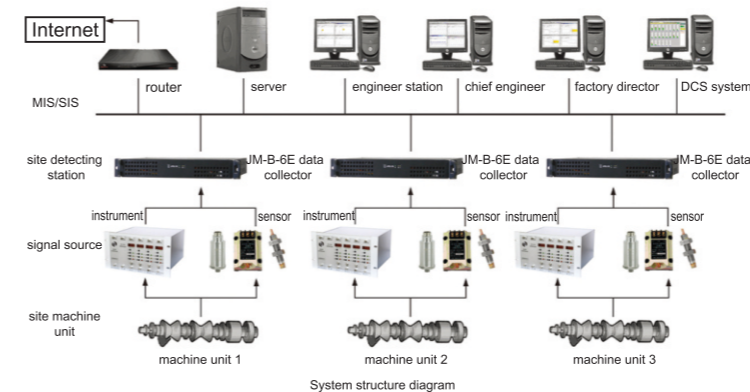


“**Jiangyin Jiangling Technology Co. Ltd.**” who is into the development, production, sales and service of vibration monitoring system including Filed measurement sensors, Vibration Monitoring software, Rotating Machinery fault diagnosis and analysis system. This product serve for all rotating equipment such as Turbine, Fans, Pump, Blowers, Rolling Mills in different industries such as petroleum, chemical, thermal power, nuclear power, Hydro, Wind power etc.

## VIBRATION MONITORING & FAULT ANALYSIS SYSTEM

**JM-B-6E** on-line vibration monitoring and fault analysis system is high technology product integrating sensor technology. Vibration Monitoring and Fault Analysis System is a high-tech product that integrates sensor techniques, signal processing, computer application, expert system and neural networks.

The system is composed of intelligent data collector, epistasis analysis computer (engineer station), monitoring analysis system software JM-B-6ES and network system. JM-B-6E intelligent data collector is responsible for collection, pre-treatment and data storage of site signal. Each intelligent data collector has two way spare key phase input and 8-path vibration or analogue quantity input



### SYSTEM FUNCTION

- Real time Monitoring and Alarm.
  - Historical Data Storage, Statement Printing.
  - Accident recall and Alarm File Storage, Parameter Setting.
  - This system provides various kinds of On-line time vibration analysis function.
  - Provides online running parameter setting method
- The system providing 12 vibration data analysis diagram: bar graph, data list, Time period wave, Frequency spectrum, Axis Path chart, bode plot, trend analysis diagram, pole graph, stack diagram, waterfall plot, two dimensional holospectrum, Axis Central line Diagram etc.



### JM-B-6Z monitoring protection device

This series rotary machinery on-line monitoring protection device is the crystallization of high technology. high intellectualization, parameter setting realize full-panel operation. The device applies module composition structure. Module has single micro processor in it. Each module has 2-level alarm switching value output. Input signal: vibration, axial displacement, rotation speed, Differential expansion, off-center, oil level of oil tank and other sensor signals.

**JM-B-6C off-line vibration monitoring and fault analysis system** is a new generation site test analysis instrument.

### SYSTEM FUNCTION

- It has functions of collection, signal treatment, display and storage, wide range analysis.
- Download point inspection plan sequence to this instrument.
- Collection amplitude, frequency spectrum, time period wave and phase
- Directly load point inspection data and temporary measurement data from this instrument to PC.
- Directly analyze various kinds of signals collected during scanning on the instrument



—FOR ENQUIRES—

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# VIBRATION MONITORING



## INTELLIGENT VIBRATION MONITORING AND PROTECTION SERIES

**JM-B-3E Dual channel vibration monitoring and protection instrument** Dual channel vibration monitoring and protection instrument is mainly used in various types of rotary machinery's bearing bush rotation (absolute vibration) and shaft vibration (relative vibration). Suitable for long-term on-line monitoring, installation is simple and convenient, without the need for on-site maintenance.



**JM-B-7 intelligent vibration monitoring and protection instrument** the wall hanging type vibration protection device is made of die-casting aluminum alloy chassis, its protection grade reaches IP56, measure various types of rotary machinery bearing vibration (absolute vibration) with two level alarm switching value output.



**JM-B-201 Intelligent vibration temperature monitoring instrument** It is mainly used to measure bearing bush vibration and bearing bush temperature of various types of rotary machinery. Memory and inquiry of automatic maximum value of sampling signal, can monitor the vibration and temperature values on the same site at the same time



**JM-B-4 Vibration temperature monitoring protection instrument** It is mainly used to measure bearing bush vibration (absolute vibration), shaft vibration (relative vibration) and bearing temperature of various types of rotary machinery. When the machine's all measurement data exceeds the normal value, the device will immediately send out an alarm signal, so that your machine can get protection, to avoid unnecessary economic loss. sensor: signal type: three sets signals of vibration, horizontal vibration (bearing vibration) and temperature (Pt100).



**JM-X-321 intelligent axial displacement monitoring and protection instrument**

**JM-X-323 intelligent differential expansion monitoring and protection instrument**

This series of instruments can be used to continuously monitor and measure axial displacement and differential expansion of various rotary machines, automatically send alarm and shutdown protection signals. provide current output ranged from 4 to 20 mA. Password protection of parameter setting. Automatic storage of dangerous shutdown operation. Automatic detection of disconnection. Memory and inquiry of automatic maximum value of sampling signal.



**JM-X-3 series intelligent travel monitoring and protection instrument**

This series of instruments is used to monitor and measure displacement of servomotor, thermal expansion, load limiter, synchronizer and starting valve of rotary machinery. Automatically send alarm and shutdown protection signals and provide current output ranged from 4 to 20 mA. Highly intelligent design with PC configuration of parameter setting. Long-term online monitoring, easy installation and test, and no field maintenance.



## TRANSMITTER SERIES

**JM-B-3BC vibration transmitter**

is used to transform measured vibration signals into standard current ranged from 4 to 20mA and output it to PLC, DCS or DEH systems. It's mainly used to measure absolute vibration (bearing vibration) of rotary machinery.

**JM-B-3B2 Bearing Vibration Transmitter**

is a single-channel two-wire system transmitter for nuclear power use, applies to vibration monitoring of bearing vibration/bearing pedestal vibration of rotary machinery. it owns anti-radiation, anti-earthquake, anti-high temperature and high pressure, chemical spray of the stream and other performance, and it is applicable to nuclear establishments.

**JM-B-33 Integrated Shaft Vibration Transmitter**

is produced by our company's specialized production for vibration of the rotary machinery (ie. shaft vibration). Mainly applies to the measurement of the relative vibration of the rotary machinery (ie shaft vibration), With a 4-20mA current analog value output, a BUF sync signal output & a switching value output.



**JM-B-35 Integrated Bearing Vibration Transmitter**

is used for measuring the bearing bush vibration (absolute vibration) of the rotary machinery, with a standard 4 - 20mA current signal to PLC, DCS, DEH and other systems. The transmitter adopts a two-wire system to make the wiring more easy and convenient.



**JM-B-37 Vibration Switch** integrates the vibration speed sensor and the signal transmission, is used for bearing bush vibration (absolute vibration) measuring of a variety of rotary machinery. Highly integrated, convenient and easy installation and commissioning, suitable for longtime online monitoring.



## SENSOR SERIES

**ZHJ-2 vibration speed sensor**

ZHJ-2 vibration speed sensor converts the vibration signal into electrical one using the magnetic electrical induction principle. It basically consists of magnetic circuit system, coil components, spring-damper and other parts, Measuring method: vertical, horizontal, axial direction.



**ZHJ-3D piezoelectric type speed sensor**

ZHJ-3D piezoelectric type speed sensor is used to measure the absolute vibration of the bearing box, shell or structure, for example displacement, speed and so on. It adopts a crystal form, receiving a specialized design based on the piezoelectric acceleration meter, embedded with an integral circuit.



**CWY-DO electric eddy current sensor**

The CWY-DO electric eddy current sensor is consisted of probe and proximator. There is coil inside the eddy current probe, which makes up of high frequency oscillation circuit together with the oscillation circuit inside the proximator.



**JL-70 Integrated electric eddy current sensor**

JL-70 integrated eddy current sensor is a kind of new high performance eddy current sensor which utilizes surface mount micro-encapsulation technology.



**TD and UT series travel route sensor**

TD and UT series travel route sensor is a kind of high performance displacement sensor. It can be used in measuring cylinder expansion of turbine and displacement distance of valve opening. Thanks to its durability and high veracity, it is widely used in many fields.



**CS series rotational speed sensor**

This sensor utilizes electromagnetic induction principle to realize speed measuring purpose. Having advantages of large output signal, high anti-interference performance, Used in many bad environments, such as smoke, oil gas, water vapor, and so on.



**ZHJ-402 vibration temperature sensor**

ZHJ-402 vibrational temperature sensor consists of vibration velocity sensors and temperature sensor. There are two vibration velocity sensors which are fixed in horizontal and vertical direction.



**ZHJ-201 vibration temperature sensor**

Vibration velocity sensor transforms vibration signal to electric signal by using magnetic induction principle. It is made up of magnetic system, coil components, spring damper, and so on.

