

Vibration Sensor (Transmitter)



Model :YD9200A

Brief Introduction:

With the popular of DCS system, the traditional function of dual table can realize by DCS system. DCS system only need a 4~20mA signal input. YD9200A series integrated chassis vibration transmission sensor can well meet these requirements, it has superior performance like small size, light weight, reliable performance.

YD9200A series integrated vibration transmitter sensor operate by magnetic-electric dipole movement of magnetic field lines cut principle, thus transfer the voltage signal amplitude to standard current signal. Signal output has wrong line protection function, it can avoid transmitter be damaged due to wrong line on site.

Applications:

YD9200A series integrated chassis vibration transmitter widely used in fans, pumps, compressors, turbines and other rotating machinery and other equipment of electric power, steel, petrochemical and other industries. Various vibration amount during equipment run-time is an important index to evaluate if the equipment is running properly, applying YD9200A series integrated chassis vibration transmitter to test vibration is an economic, high-quality proposal.

YD9200A series integrated chassis vibration transmitter , user can refer selection guide for suitable products to measure vibration acceleration, vibration velocity and vibration displacement according to selection.

YD9200A series integrated chassis vibration transmitter is one model two-wire made, it is design and produce on the basis of 《GB 3836.04-2000》 , which meet the application of explosion-proof occasion. According to users' needs, we can provide explosion-proof approval.

Technical Specifications:

1. Vibration velocity measurement range: 0~100mm/s effective value; (Optional)
2. Vibration displacement measurement range: 0~1000 μ m peak peak value (Measurement type and range can be customized according to users' requirements);
3. Resolution Ratio: 0.05%;
4. Drift: $\leq 0.1\%$ / $^{\circ}\text{C}$;
5. Applicable Temperature: (-20~+80 $^{\circ}\text{C}$);
6. Power Supply: +18~+35 V;
7. Affordable Maximum Impact: 2000g;
8. Output: 4~20mA, 1--5V , 1-10V (Optional) while full range Vbuf is 1Vp-p;
9. Load: maximum drive, 500 Ω load;
10. Frequency Response: 10~1000Hz
4.5~1000Hz (changeable according to users' requirement);
11. Horizontal Sensitivity: <2%;
12. Weight: about 400g;
13. Case material: Aluminum (changeable material according to users' requirements)

Method of connecting wires:

Brown wire: +24V

Blue wire: com (common port)

Black wire: Signal