

Integrated Vibration Transmitter

The integrated vibration sensor and transmitter is easy to install on the equipment to be used in conjunction with condition monitoring systems, such as panel meters, DCS, and PLC, etc. It is particularly applicable to monitor online the health condition of important machinery.

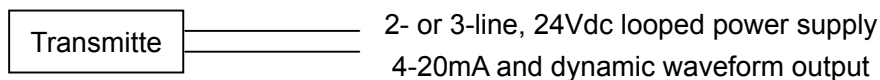
The integrated vibration transmitter integrates a shear-mode piezoelectric accelerometer with amplifier, integrator and transmitter to output the true RMS value of the vibration acceleration, velocity or displacement (looped power or 3-line 4-20mA current signal).



Specifications:

- Accelerometer:
 - ◆ Shear-mode Ceramic piezoelectric
 - ◆ Self-temperature-compensation of sensitivity
 - ◆ Transverse sensitivity max: <5%
 - ◆ Case: stainless steel, air-tight
 - ◆ Ground isolated
 - ◆ Measurement range: 50, 100, 150, 200 ms⁻² selectable
- Output:
 - ◆ Overall Value: RMS or equivalent peak selectable
 - ◆ Parameter: Acceleration, velocity or displacement selectable
 - ◆ Line: 2- or 3-line 4~20mA;
 - ◆ Optional Dynamic voltage output
 - ◆ Output load resistance: 0~500Ω
- Frequency response: 5-1000Hz
- Operating temperature (°C): -20~80
- Power supply: 20~30Vdc looped
- Connector for cable: (SY)X12KX3P included
- Connector direction: side
- Sensor installation: one M8 screws
- Size: Ø40 x 73 mm
- Weight: 370g

Wiring:



Precautions

- 1 . The sensor must have a close and rigid contact with the object under test, whose surface must be smooth. The sensor may be installed with a lock washer.
- 2 . The cable and connector can be pasted with a shield of silicone rubber after being tightened together to prevent them from getting loose.