

# ○ P-HZD WATER-PROOF VIBRATION SENSOR TRANSMITTER



## 1. Specification

**Sensitivity:** 20mv/mm/s±5% 30mv/mm/s±5% 50mv/mm/s±5%

**Frequency Response:** 5-100Hz (10-300Hz)

### Measuring Range

1). 0-10mm/s 0-20mm/s 0-30.0mm/s 0-40.0mm/s 0-50.0mm/s

2). 0-100um 0-200um 0-300um 0-400um 0-500um

**Signal Output:** standard current 4-20mA (default when order)

**Output Impedance:** ≤500 **Power supply:** DC24V

**Max acceleration:** 10g **Measurement Direction:** vertical or horizontal

**Mounting method:** vertical or horizontal mounted on the measured vibrating point

**Mounting thread:** B type: M10X1.5, F type: M20X1.5

**Working Ambient:** Temperature: -30°C to 50°C, Relative humidity≤90%

**Size and Weight:** **B type:** φ45×90mm, about 350g **F type:** φ70x115mm, about 750g

## 2. Order Code

Item No.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Functions
P-HZD	B				Indoor usage, size: φ45×90mm, weight: about: 350g, mount: M10x1.5 thread with fixing bolt as default (cut a same size hole in measured object and then screw on transmitter. Thread size can be customized)
	F				Outdoor usage (Explosion-proof), size: φ70x115mm, weight: about 750g. Mount: M20x1.5 thread as default (first welding the nut on the measured object and then screw on transmitter. Thread size can be customized)
Vibration Intensity		1			0-10.0mm/s
		2			0-20.0mm/s
		3			0-30.0mm/s
		4			0-40.0mm/s
		5			0-50.0mm/s
		6			customized
Or Vibration amplitude, Vibration displacement		1			0-10.0um
		2			0-20.0um
		3			0-30.0um
		4			0-40.0um
		5			0-50.0um
		6			Customized
Signal output		I1			0-10mA
		I2			4-20mA
		U1			0-5VDC
		U2			1-5VDC

## 3. Item picture



#### 4. Installation

4.1 **Leading Cable:** three-core sheathed cable, red wire: DC24V, black wire: Ground (GND), yellow wire: current output (4-20mA).

4.2 **Calibration:** Please connect the ammeter positive terminate "+" to yellow wire, the negative terminate "-" to black wire; Power supply DC24V "+" to red wire, DC24V "-" to black wire. When without signal input, the ammeter displays 4.00mA. If not display 4.00mA, please adjust the potentiometer (rectangular) to make the current as 4.00mA.

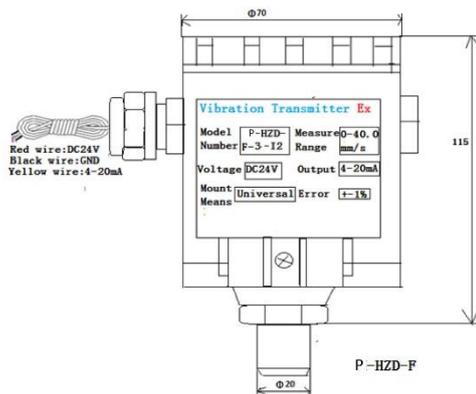
Please adjust the range of the vibration calibration instrument to the required one. So the ammeter will display 20.00mA. If not 20.00mA, please adjust the potentiometer (rectangular) to make the current as 20.00mA.

4.3 **Mounting position:** The transmitter can be mounted vertically or horizontal in the measured point.

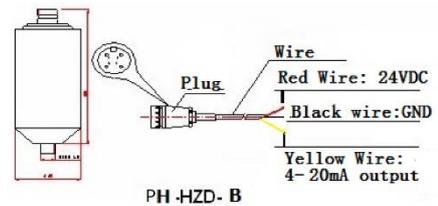
Please fix the screw bolt M10X1.5 in bottom of the transmitter (welding screw nut M20X1.5) on the measured object. Then screw on the transmitter.

4.4 Connection as follows:

P-HZD-F: Explosion-proof Type

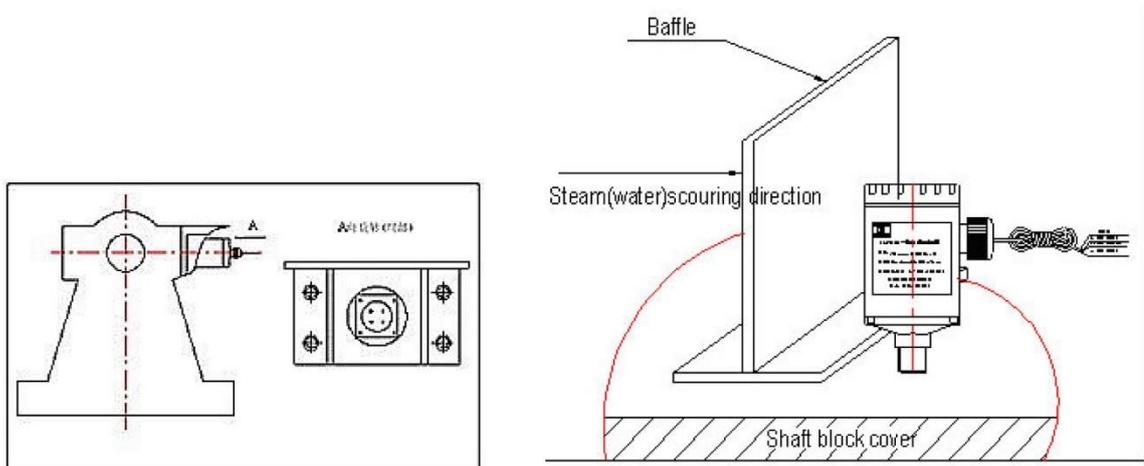


PH-HZD-B: Indoor type



**Note:** When installed part of the transmitter is scoured by steam, please make some protection on transmitter in order to reduce the working ambient temperature and humidity of transmitter. In normal condition, no need any protection.

4.5 **Protection** on transmitter can be made according to the field demand. Reference as follows:



Air-proof and water-proof baffle panel diagram

#### 5. Note

5.1 Strong shock and knock should be avoided on transmitter

5.2 The transmitter should be packed in the box during the transport and storage.