

## HPM133P Water Pump Pressure Transmitter



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## Overview

HPM133P water pump special pressure transmitter is a special product developed according to the needs of the water treatment industry. The modified product adopts high-performance ceramic sensor, with high-precision electronic conditioning circuit, and is assembled and produced by strict process flow. This product is cost-effective and has a variety of pressure and electrical interfaces. The product is well designed, with professional waterproof hammer impact design. Not only the structure is exquisite, but also the performance is outstanding, has good electrical performance and long-term stability, widely used in frequency conversion pump, complete water supply and other fields.

## Features

- Excellent waterproof hammer design
- Compact shape, suitable for installation space is narrow occasions
- Multiple pressure interfaces available
- Multiple electrical outlet options
- Low cost, cost-effective
- Good long-term stability

## Applications

- ❖ Water treatment
- ❖ Variable speed pumps
- ❖ Compressors
- ❖ Complete water supply

## Technical Parameters

<b>Measuring Range</b>		
Gauge pressure	0 ~ 1...50bar	
Overload	200%FS	
<b>Measuring Medium</b>		
type	All types of liquids and gases compatible with contact materials	
<b>Output Signal/Power supply</b>		
Standard	3 wire: 0.5 ~ 4.5VDC	/ $V_S=5 V_{DC}$
Standard	3 wire: 0/1 ~ 10VDC	/ $V_S=24 V_{DC}$
Standard	3 wire: 0/1 ~ 5V <sub>DC</sub>	/ $V_S=24 V_{DC}$

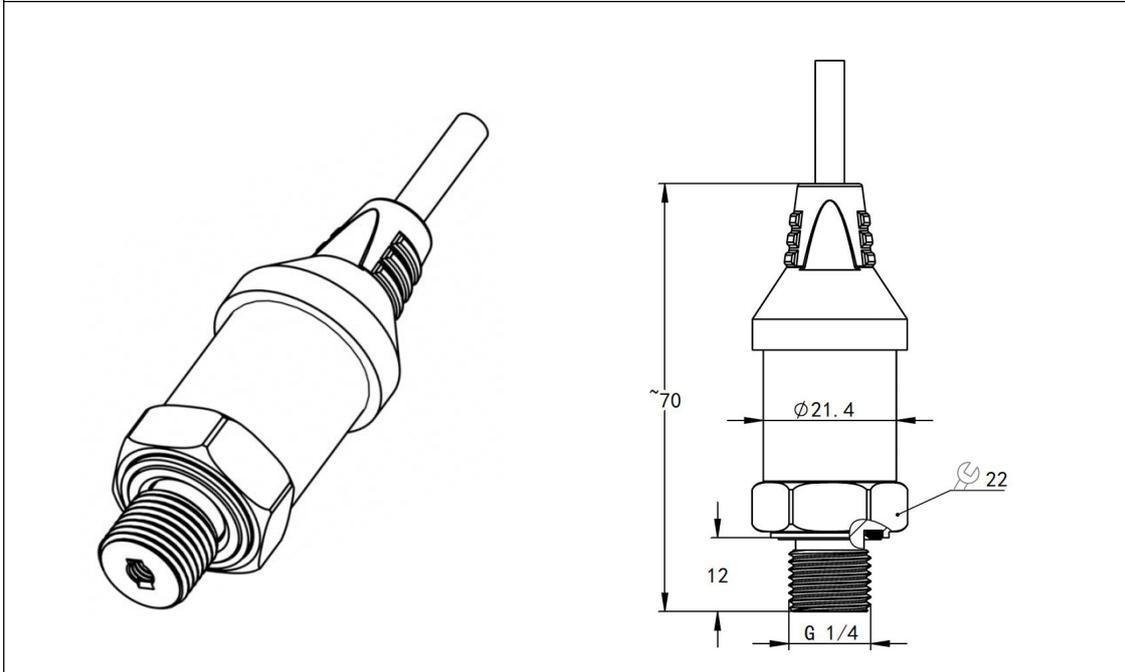
<b>Performance</b>	
Accuracy	±1.0%FS, @25°C
Long-term stability	±1.0%FS/year
<b>Environmental Conditions</b>	
Temperature range	Ambient temperature: -20 ~ 85°C
	Medium temperature: -40 ~ 100°C
	Storage temperature: -40 ~ 85°C
Protection grade	IP66, cable outlet

<b>Electrical Protection</b>	
Short circuit protection	Permanent
Reverse polarity protection	No damage, circuit inoperative
Electromagnetic compatibility Conforms to EN 61326	Conforms to EN 61326

<b>Mechanical Stability</b>	
Vibration	10g(20~2000Hz)
Shock resistance	100g(11ms)
<b>Insulation</b>	
Insulation resistance	>20MΩ @500VDC
Dielectric strength	<2mA @ 500VAC 1min

## Structural Drawings(unit:mm)

Cable outlet (ordering code C2)



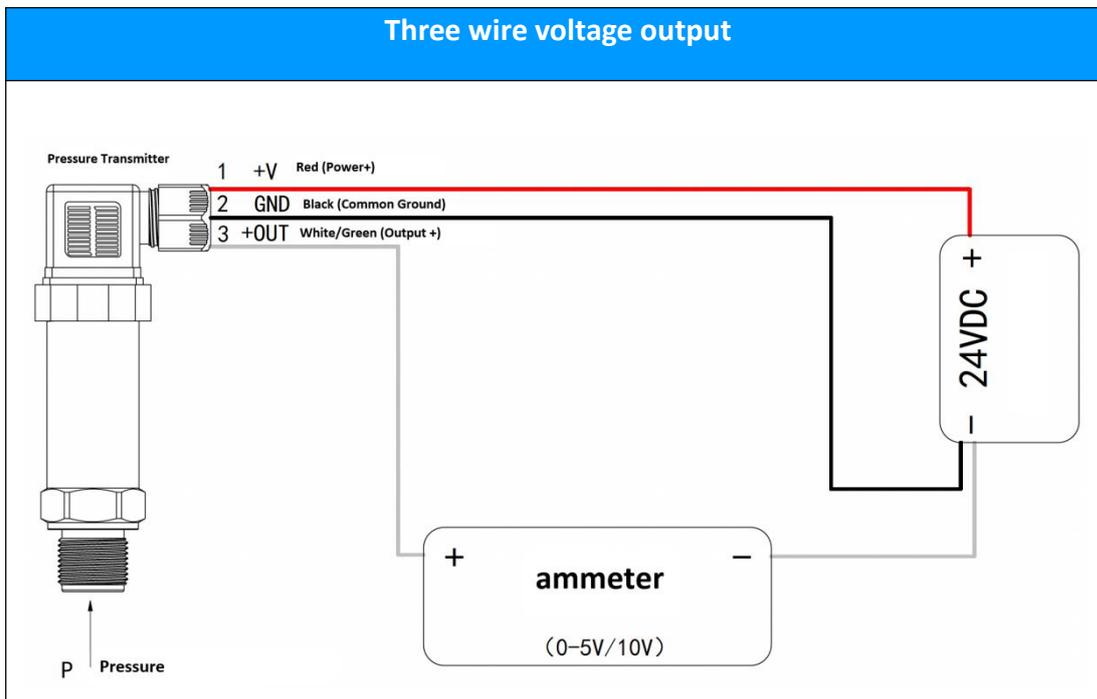
### Notes:

- 1、 The dimensions listed in the picture may change with the update of the process
- 2、 Please consult the sales engineer for other shapes and sizes.

## Electrical Connection

Three wire 0~5V/10V voltage output			
Signal definition	Power+(+V)	Power-(GND)	Signal+(+OUT)
Cable outlet	red	black	white or green

## Wiring Diagram



## Ordering Guide

Model	Type						
HPM133P	Water Pump Pressure Transmitter	<b>Range</b>	<b>Measuring Range</b>				
		(0 ~ X)bar	fill out x directly				
		<b>Code</b>	<b>Output Signal</b>				
		B3	(0 ~ 10)V				
		B4	(0 ~ 5)V				
		B5	(1 ~ 5)V				
		B6	(0.5 ~ 4.5)V				
		B15	(1 ~ 10)V				
		B16	(0.25 ~ 1.25)V				
		B18	(0.5 ~ 2.5)V				
		<b>Code</b>	<b>Process Connection</b>				
		P3	G1/4 Male				
		P6	R1/4 Male				
P8	NPT1/4 Male						
<b>Code</b>	<b>Electrical Connexion</b>						
C2	<b>Cable outlet</b>						
	<b>Code</b>	<b>Housing Material</b>					
	S4	304					
S6	316L						
M5	<b>Sensor</b>						
	ceramic piezoresistive pressure transmitter						
	<b>Code</b>	<b>Additional functions</b>					
V24	24V supply (default)						
V5	5V power supply						
VL33	3.3V power supply						
E.g. HPM133P	(0 ~ 10)bar	B3	P3	C2	S4	M5	V24