HPM133 Ceramic Piezoresistive Pressure Transmitter



Nanjing Hangjia Electronic Technology Co.,Ltd.

Overview

HPM133 ceramic pressure transmitter adopts high performance ceramic sensor and high-precision electronic regulating circuit. Ceramic pressure transmitter adopts high performance ceramic sensor, with high-precision electronic regulating circuit, assembled and produced by strict process. It is assembled and produced by strict process. The product is cost-effective and has a variety of pressure interfaces and electrical interfaces. The product is cost-effective and has a variety of pressure interfaces and electrical interfaces.

The product is well-designed, not only compact structure, but also performance The product is well-designed, not only the structure is exquisite, but also the performance is outstanding, with professional waterproof hammer impact, good electrical performance and long-term stability. Widely used in frequency conversion pumps, complete sets of water supply, compressor equipment and compressor equipment, etc.

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

Measuring Range		
Gauge pressure	0 ~ 150bar	
Overload	200%FS	
Measuring Medium		
type	All types of liquids and gases compatible with contact materials	
Output Signal/Power supply		
Standard	2 wire : 4~20mA _{DC} / Vs=10~30 V _{DC}	

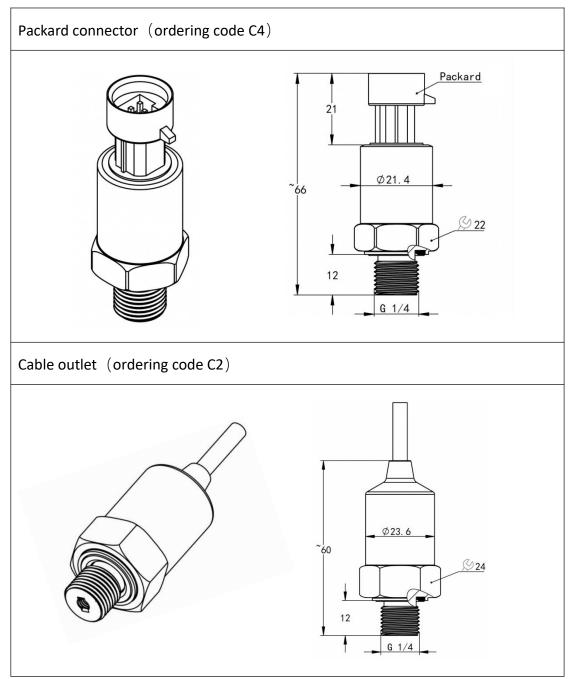
Standard	3 wire: $0 \sim 5V_{DC}$	/	Vs=8.5~30 V _{DC}
Standard	3 wire: $0 \sim 10V_{DC}$	/	Vs=12~30 V _{DC}

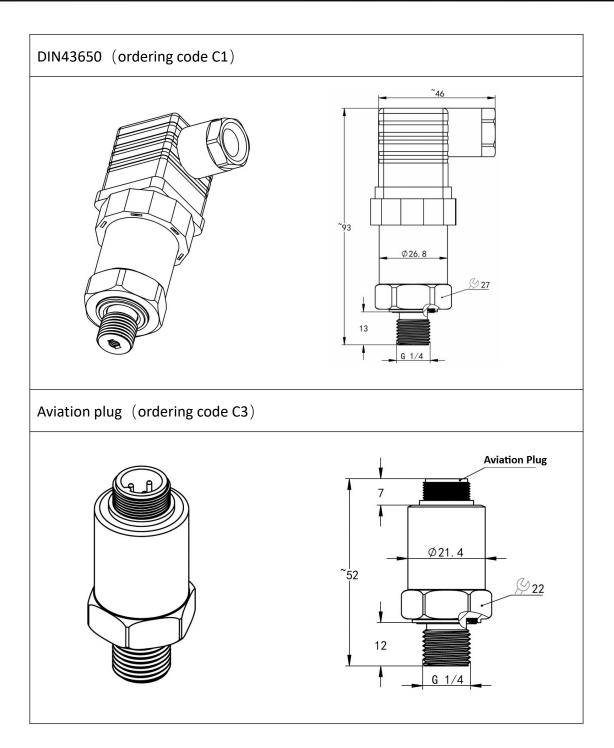
Performance			
Accuracy	±1.0%FS(liquid); ±0.5%FS(gas),@25 °C		
Long-term stability	±1.0%FS/year		
Environmental Conditions			
	Ambient temperature : $-20 \sim 85 ^\circ \mathbb{C}$		
Temperature range	Working temperature : $-40 \sim 100^{\circ}$ C		
	Storage temperature : $-40 \sim 85 ^\circ \mathrm{C}$		
Protection grade	IP65,DIN43650,packard connector		
	IP66,aviation plug,cable outlet		

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

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

Structural Drawings(unit:mm)





Notes:

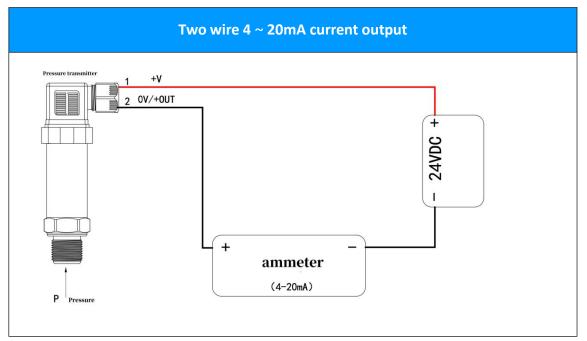
1. The dimensions listed in the picture may change with the update of the process 2. Please consult the sales engineer for other shapes and sizes.

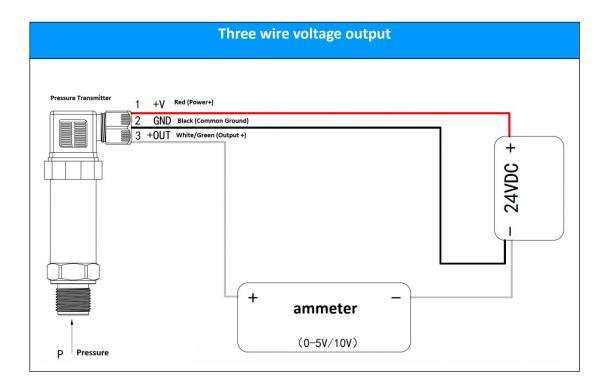
Electrical Connection

Two wire 4 ~ 20mA current output				
Signal definition	Power+(+V)	Power- (0V/+OUT)		
DIN43650	1	2		
Cable outlet	red	black		
Aviation plug, with cable	red	black		
Packard connector, with cable	red	black		

Three wire 0~5V/10V voltage output					
Signal definition	Power+(+V)	Power-(GND)	Signal+(+OUT)		
DIN43650	1	2	3		
Cable outlet	red	black	white or green		
Aviation plug, with cable	red	black	white or green		
Packard connector, with cable	red	black	white or green		

Wiring Diagram





Ordering Guide

