HPM135 Refrigeration Pressure Transmitter



Nanjing Hangjia Electronic Technology Co.,Ltd.

Product Overview

HPM135 pressure transmitter for refrigeration industry adopts high-performance ceramic sensor, with high-precision electronic conditioning circuit, assembled and produced by strict process. The product is cost-effective and has a variety of pressure interfaces and electrical outputs. The product is well-designed, not only compact structure, but also outstanding performance, with a unique anti-condensate design, for the safe and efficient operation of the equipment to play a role in pressure protection. It is mainly used in water-cooled screw units, ground source heat pumps, freezers, ice machines and other fields.

Features

- ◆ Unique anti-condensation design
- ◆ Small form factor for applications where installation space is at a premium
- Multiple pressure connections available
- ◆ Multiple electrical output options
- ◆ Wide operating temperature range
- Good long-term stability
- Stainless steel housing, multiple output options available

Applications

Refrigeration industry.

HVAC.

Water-cooled screw units.

Ground source heat pump, water source heat pump units, etc.

Technical Parameters

Measuring Range				
Gauge Pressure		0 ~ 150bar		
Overload		200%FS		
Measuring Medium				
Туре	All types of liquids and gases compatible with contact materials			

Output Signal/Power supply				
Standard	Two-wire: 4~20mA _{DC}	/ Vs=24V _{DC}		
Standard	Three-wire: 0 ~ 5V _{DC}	/ Vs=24V _{DC}		
Standard	Three-wire: 0 ~ 10V _{DC}	/ Vs=24V _{DC}		

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Three-wire: $0.5 \sim 4.5 V_{DC}$ proportional voltage / $V_{S}=5 V_{DC}$

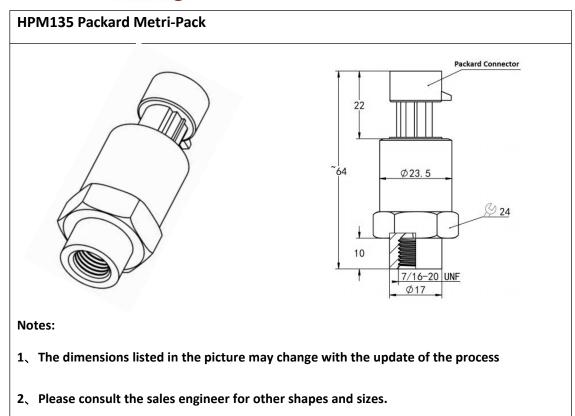
Process Connection				
Standard	7/16-20UNF Female, with thimble; 7/16-20UNF Male; G1/4 Male etc.			

Performance				
Accuracy	±0.5%FS, @25℃			
Long-term Stability	±0.5%FS/year			
Environmental Condit	ions			
	Ambient temp.: -20 ~ 85 ℃			
Temperature range	Medium temp.: -35 \sim 85 $^{\circ}\mathrm{C}$			
	Storage temp.: $-40 \sim 85^{\circ}$ C			
Protection grade	IP65: Packard Metri-Pack, Hirschmann DIN43650			

Electrical Protection				
Short circuit protection	Permanent			
Reverse polarity protection	No damage, circuit inoperative			
Electromagnetic	Conforms to EN 61326			
compatibility				
Mechanical Stability				
Vibration	10g(20~2000Hz)			
Shock resistance	100g(11ms)			

Insulation				
Insulation resistance	>20MΩ @500VDC			
Dielectric strength	<2mA @ 500VAC 1min			

Structural Drawings



Structural Material

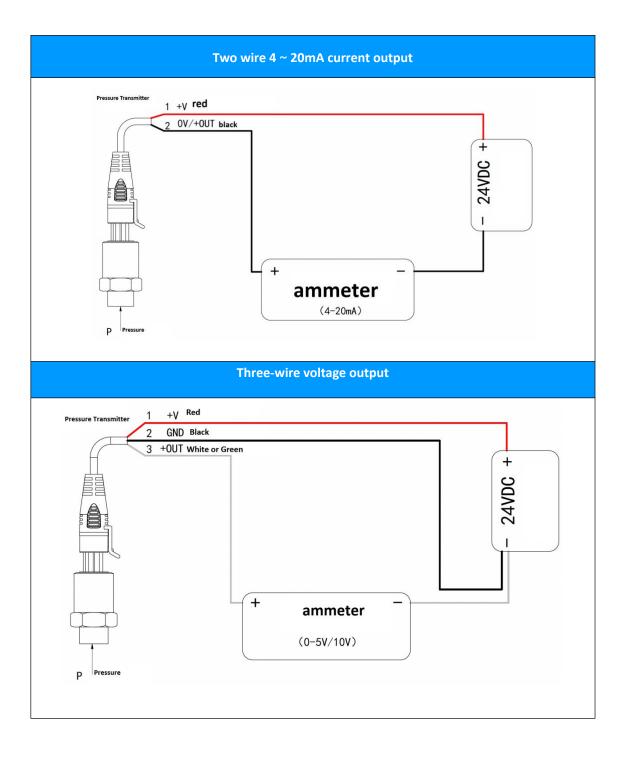
Ordering code	Part	Material		
S4		SS304		
S6	Process connection	SS316L		
Х		Other customized		
M5	Sensor	Ceramic		
CR	Oring	CR neoprene seal ring		
Х	O-ring	Other customized		

Electrical Connection

Two wire 4 ~ 20mA current output					
Signal Definition	Power+ (+V)	Power- (0V/+OUT)			
Hirshmann DIN43650	1	2			

Packard connector with cable	red	black
	(

Three wire 0~5V/10V voltage output						
Signal Definition Power+(+V) Power-(GND) Signal+(+OUT)						
Hirshmann DIN43650	1	2	3			
Packard connector with cable	red	black	White or green			



Ordering Guide

Model	Type							
HPM135	Refrigeration pressure transmitter							
	Range	Measuring Range	4					
	(0 ~ X)bar	Fill out X directly						
		Code	Output Signal					2
		B1	(4 ~ 20)mA					
		B3	(0 ~ 10)V					
		B6	(0.5 ~ 4.5)V		***			
			Code	Process Connection				
			P3	G1/4 Male				
			P8	NPT1/4 Male				
			P10	7/16-20UNF-Male				
			P11	7/16-20UNF-Female				
				Code	Electrical Connection			
				C1	DIN43650			
				C4	Packard Connector			
					Code	Housing Material		
					S4	304		
					S6	316L		· ·
						Code	Seal Ring	
					7	CR	CR neoprene	
						i i	Code	Additional Functions
							V24	24V power supply
1000							V5	5V power supply
E.g.: HPM135	(0 ~ 50)bar	B1	P11	C4	S4	CR		V24