

HR320 Series Intelligence Pressure Transmitter

Overview

HR320 series intelligence pressure transmitter uses top quality pressure components with mixed signal processing technology and unique compensation methods to realize F S digital linearity correction, full temperature digital temperature compensation to improve the precision of the transmitter. Circuit part with power and watchdog monitor improve the reliability of the whole transmitter.

Rich product series, they are widely used in pressure measurement of oil and gas industry, hydrology and water conservancy, geological prospecting, shipping industry etc.



Features

- High stable pressure sensing element;
- Digital correction;
- Factory calibration, no need of potentiometer adjustment, with high reliability
- With strong over load, anti-corrosion
- Reverse power protection, over voltage protection
- Anti-surge, electromagnetic interference



Specification

Main performance indicators					
Accuracy	±0.25% (typ.) , ±0.5% F·S (max.)				
Range	-0.1∼0 0.01∼100 MPa				
Long-term stability	0.1%F·S/year				
Overload capability	1.5 X F·S				
Pressure type	Gauge pressure (atmospheric reference), absolute pressure, gauge pressure (sealed reference)				
Temperature characteristics					
Compensation temperature	0~70°C				
Operating temperature	-20∼85°C				
Storage temperature	-40∼125°C				
Electrical characteristics					
Power Supply	DC12~30V				
Power Protection	Anti-reverse connection, over voltage protection				
Output mostle od	Two-wire system 4 ~ 20mA, 4 ~ 20mA+HART (Optional)				
Output method	Three-wire 0/1 ~ 5V/10V				
Load	(U-12)/0.02 (Ω) (output)				
Structural characterist	ics				
Measuring medium	Compatible with stainless steel and fluoro rubber				
Pressure interface	M20*1.5 male, G1/2 male, or customized				
Housing material	1Cr18Ni9Ti stainless steel				
Diaphragm material	316L stainless steel				



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Cable material	Polyurethane or PVC optional				
Environmental characteristics					
Protection level	IP65				
Explosion-proof grade	Exia∏C T6				
Insulation	100ΜΩ@50V				
Vibration 20g, 20 ~ 5000Hz					
Shock	20g, 11ms				

Electrical connections

• Two-wire current output connection

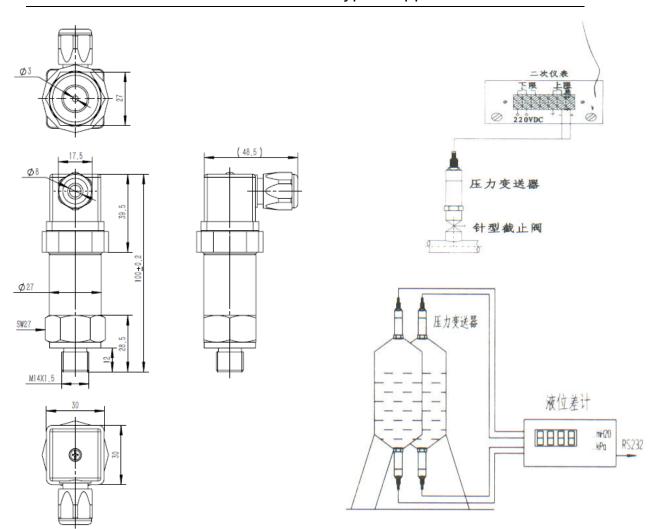
No.	Color	Definition
1	Red	+V
2	Blue	OV/OUT

• Three-wire current output connection

No.	Color	Definition
1	Red	+V
2	Blue	+OUT
3	Yellow	(GND)







Order Guide

HR320X	Smart Pressure Transmitter			
	Range			
	[0~X] KPa/MPa			
		Code	Output Signal	



		Е	4~20mA (two-wire)				
		0	4~20mA+HART (two-wire)				
		I	0~5V (three-wire) 1~5V (three-wire) 0~10V (three-wire) Customized				
		J					
		L					
		Т					
			Codo		Construction Material		
			Code	Housing	Diaphragm	Process connection	
			S1	Stainless Steel	316L	Stainless Steel	
			S2	316L	316L	316L	
				Code Others C1 M20×1.5 male, face type sea C2 M20×1.5 male, waterline seal C3 Flush diaphragm, G1/2 male		Others	
						e, face type seal	
						e, waterline seal	
						gm, G1/2 male	
				DN	DN25clamp (sanitary type		
				B1	Hirschmann p	olug connection	
				B2	Cable connection length: 1.5m	ction, default cable	
				LM	Current limit	ing module	
				G	Gauge pres (atmospheri	sure type c reference)	
				S	Gauge pressure type((sealed reference)		
				Α	Absolute pre	essure	
HR3202	[0 ~ 10]MPa	Е	S2	C1B1G	Full model example		

Note:HR3208 housing is alum.