

HR5300 Pressure Controller

HR5300 digital pressure controller is an integrated multi-functional transmitter for pressure measuring and controlling, with features of measurement, display and control. HR8600 adopts high quality pressure sensor, highly integrated AFE adjusts voltage signal to compensate and amend microprocessor, the final result will display on the LCD and output control signal according to setting conditions. It has the function of power and watchdog monitoring, reliable, simple and convenient.

The series products are widely used in Water, electricity, oil, chemical, mechanical, hydraulic and other industries to measure, display and control fluid medium.



Features

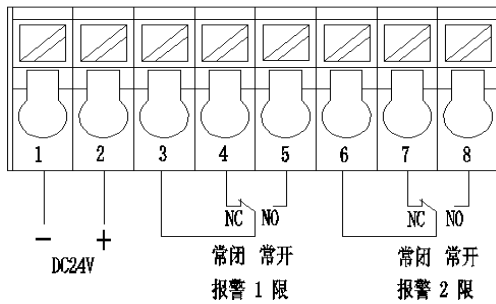
- Top quality high temperature pressure sensor
- Digital correction
- ·Display and operate on spot
- ·Key operation, easy to use.
- With strong over load, anti-corrosion
- Reverse power protection, over voltage protection
- With strong over load, anti-corrosion

Specification

Main performance indicators	
Display Accuracy	$\pm 0.25\%$ (typ.), $\pm 0.5\%$ F·S (max.)
Operation Accuracy	$\pm 0.5\%$ F·S
Range	-0.1~0~0.01~100MPa
Long-term stability	0.1%F·S/year
Overload capability	3X F·S
load capability	(U-9)/0.02 (Ω)
Pressure Type	Gauge pressure (atmospheric reference), absolute pressure, gauge pressure (sealed reference)
Temperature characteristics	
Compensation temp.	0~70°C
Working temp.	-20~85°C
Storage temp.	-40~85°C
Electrical characteristics	
Power Supply	DC12 ~ 30V (typ. 24V)
Power Protection	Anti-reverse connection, over voltage protection
Display	4-digit LED or LCD display
Display range	-1999 ~ 9999
Controlling contact	2
Load	220VAC/3A 30VDC/3A
Contact life	1000000 次
Max. Consumption	0.8W
Construction characteristics	

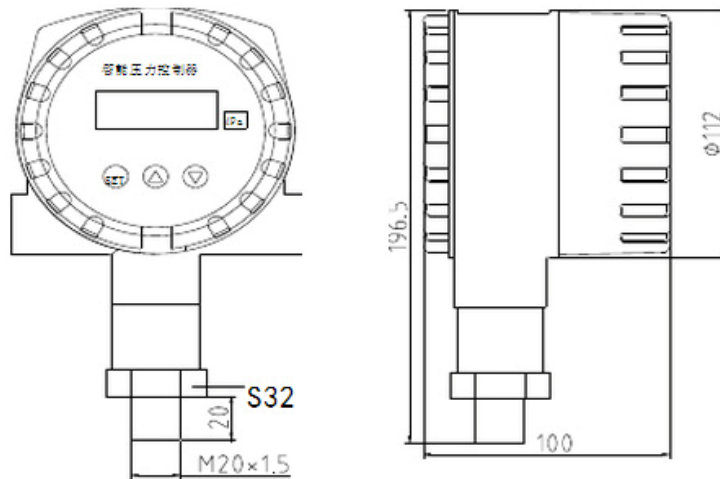
Measuring medium	Compatible with stainless steel and fluoro rubber
Pressure interface	M20*1.5, G1/2 male
Housing material	316L stainless steel
Environmental characteristics	
Protection level	IP65
Explosion-proof grade	Exia IIC T6
Insulation	100MΩ@50V
Vibration	20g, 20 ~ 5000Hz
Shock	20g, 11ms

Electrical connections



No.	Definition
1, 2	Power Input
3, 4, 5	Alarm 1st limit output
6, 7, 8	Alarm 2nd limit output

Outline Construction: (Unit:mm)



Selection Guide

HR5300	Pressure Controller					
	Range					
	[0~X] KPa/MPa					
		Code	Control Type			
		T1	No. 1 and 2 both upper limit contact			
		T2	No. 1 upper limit contact, No. 2 lower limit contact			
		T3	No. 1 lower limit contact, No. 2 upper limit contact			
		T4	No. 1 and 2 both lower limit contact			
			Code	Construction Material		
				Housing	Diaphragm	Process connection
			S1	Stainless Steel	316L	Stainless Steel
			S2	316L	316L	316L
				Code	Others	
				H/L	Pressure High/Low	
				C1	M20×1.5 male, face type seal	
				C2	M20×1.5 male, waterline seal	
				C3	G1/2 male	
				G	Gauge pressure type (atmospheric reference)	
			S	Gauge pressure type((sealed reference)		
			A	Absolute pressure		
HR5300	[0 ~ 10] KPa	T2	S1	C2G	Full model example	