

EST310 Piezoresistive Pressure Transmitter

- ✓ Pressure type: Gauge/Seal gauge Pressure
- ✓ Range 0~0.2MPa...60MPa
- ✓ Precision $\pm 0.5\%$ F.S
- ✓ Stability 0.25%F.S/Year(typical), 0.4%F.S/Year(maximum)
- ✓ Signal Output 4~20mA, 0/1~5V, 0.5~4.5V, 0~10V
- ✓ Power supply 10/11~30Vdc, 8~30Vdc, 5V(ratio)
- ✓ OEM: Available



Applications

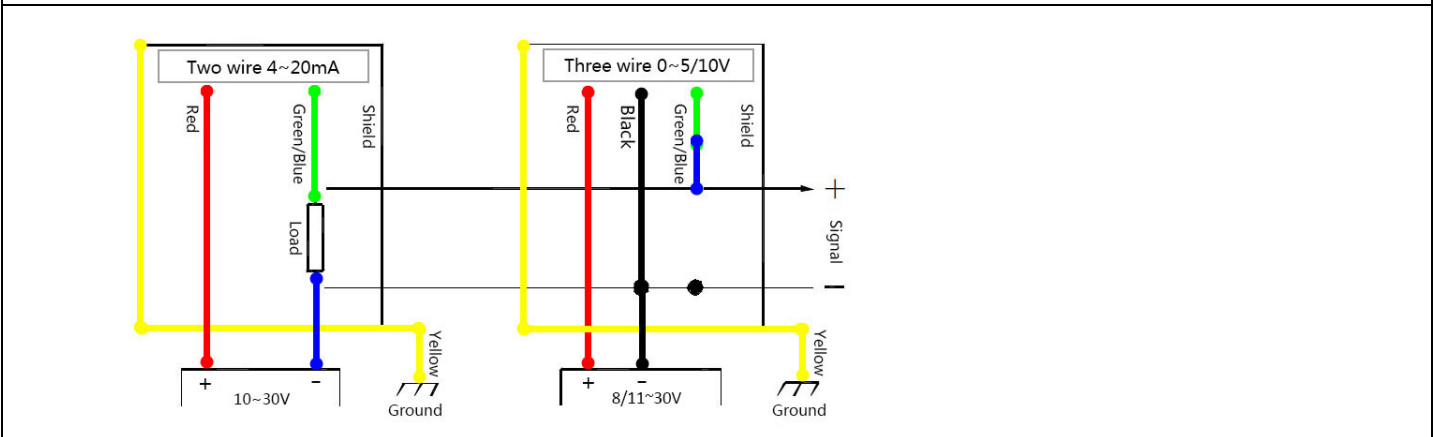
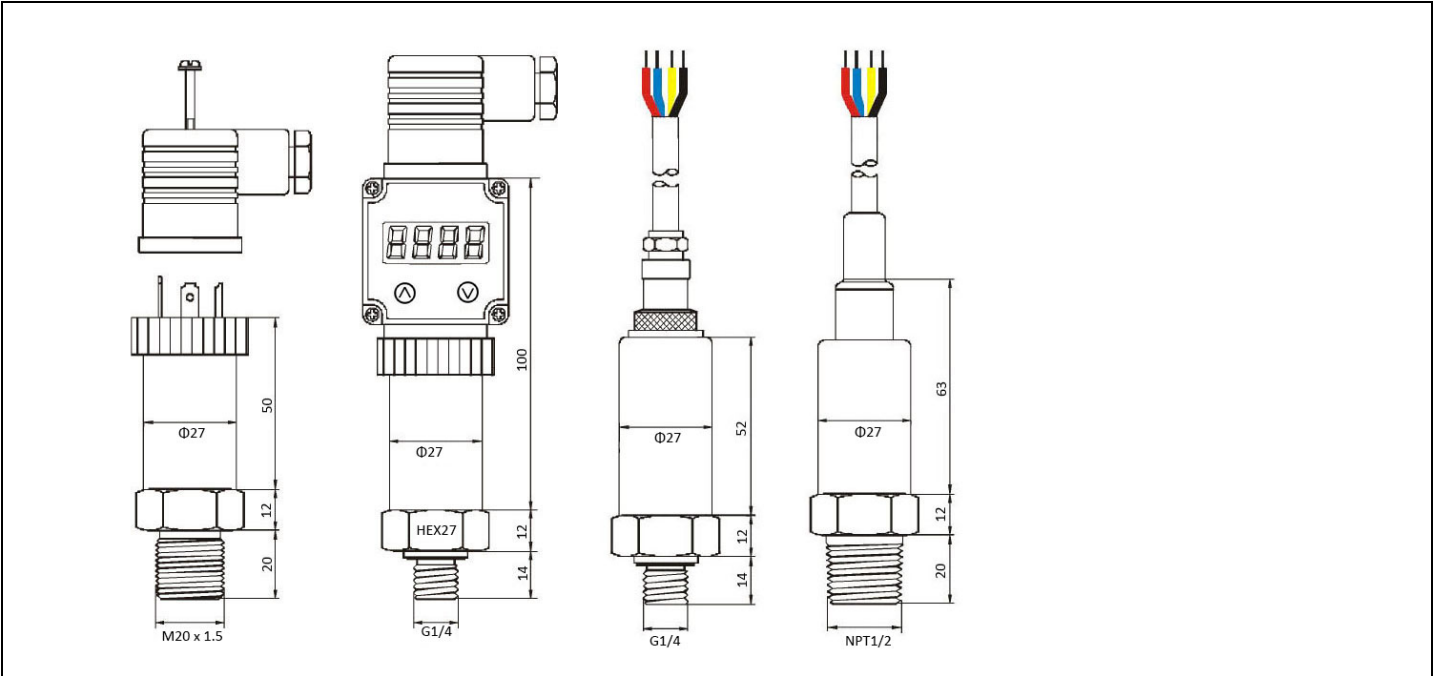
Gas dispenser | Refrigerator | Hydraulic lubrication | Constant pressure water supply
| Line pressure | Pressure vessel | Petrochemical | Industrial process control

Product Introduction

EST310 pressure transmitter is widely used in the civil and industrial sectors for the pressure measurement of gas and liquid, including water, oil, light corrosive liquid and gas. Adopting the 1Cr18Ni9Ti stainless steel construction, the active sensing element of global brands, and the instrumentation amplifier specially designed for sensor, EST310 enables accurate zero and span calibration. Apart from dozens models of standard construction and outputs, our team is ready to customize the products based on the needs so as to meet the demands for batch applications.

Electrical Connections and Dimensional drawings

Electrical connection				
Cable	Two wire	Three wire	Hirschmann	
Red	Power Supply	Power Supply	1	
Blue/Green	Output	Output	2	
Black	Shield	GND	3	
Yellow		Shield	≡	
Signal output				
Two wire	4~20mA			
Three wire	0~5V, 0.5~4.5V, 1~5V, 0~10V (dc)			
Electrical connection				
Cable	Two wire	Three wire	GX16-7	
Red	Power Supply	Power Supply	1	
Blue/Green	Output	Output	2	
Black	Shield	GND	3	
Yellow		Shield	4	
Signal output				
Two wire	4~20mA			
Three wire	0~5V, 0.5~4.5V, 1~5V, 0~10V (dc)			



Specifications

Measuring Range	0~0.2MPa...60MPa		Medium compatibility	Mediums compatible with 1Cr18Ni9Ti or brass	
Overload pressure	1.5 times of rated pressure		Insulation	>100M Ω @50V	
Burst Pressure	3, 5, 10 times of rated pressure ±0.5/55℃; Note temperature effect error is doubled at range 3; the error for analog model is doubled		Electric Strength	500V@60second	
Precision	±0.25%F.S, ±0.5%F.S		Vibration/Sh	10g/5~2000Hz, axes X/Y/Z20g sine 11ms	
Stability	0.25%F.S/Y, 0.5%F.S/Ymax		Pressure durability	2 x 10 ⁶ pressure cycle@25℃	
Working temperature	-40~85℃, (-40~120℃ Customize)		Display	-999~1999	
Compensation temperature	-10~70℃		Contact rating	24V, 1A	
Electrical parameters	Two wire	Three wire			
Output Signal	4~20mA	0~5Vdc	1~5Vdc	0.5~4.5Vdc	0~10Vdc
Power supply	10~30Vdc	8~30Vdc		5V (Ratio)	11~30Vdc

Load resistance	(U-10)/0.02(Ω)	>20kΩ
Electrical Connections	DIN43650-A, IP65; GX16-7, IP45; cable electrical connection, IP68; 防水接头出线, IP65;	
Process connection	M20 x 1.5, G1/4, G1/2, R1/2, NPT1/2	
Pressure type	gage pressure (G), seal gage pressure(S), response time: 10ms	
Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2	
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa		

Ordering Procedure

EST	Piezoresistive pressure transmitter							
	Code	Model						
	010G	Universal						
	010E	Intrinsically safe and explosion-proof						
	010C	+ display						
	010A	+ alarm						
	Code	Span						
	1	0~0.2...60MPa						
	2	0~2bar...600bar						
	Code	Output Type						
	A	4~20mA						
	V	0~5Vdc						
	V1	1~5Vdc						
	V05	0.5~4.5Vdc						
	V2	0~10Vdc						
	Code	Power Supply						
	DC5	5Vdc						
	DC24	24 Vdc						
	DC6	6~24 Vdc						
	DC10	11~30 Vdc						
	DC11	11~30 Vdc						
	Code	Process connection						
	M	M20 x 1.5						
	G	G1/4						
	G2	G1/2						
	R2	R1/2						
	N2	NPT1/2						
	Code	Electrical Connections						
	H	DIN43650-A						
	GX	GX16-7						
	C	Cable Electrical Connection						
	CW	Waterproof cable conduit connections						
	Code	Cable length XXm=... m						
		Code	Packing					
		Bb	Bubble bag					
		Foam	Plastics foam					
EST	310G	1	A	DC5	M	H	1.5m	Bb