

EST380 Heat-resistant Pressure Transmitter

- ✓ Pressure type: Gauge/Seal gauge/Differential Pressure
- ✓ Working temperature: -40°C~150°C
- ✓ Sensing: Thin Film
- ✓ Burst Pressure: 4X-10X
- ✓ All-welded, No O-rings
- ✓ Range: 0~0.1MPa~150MPa
- ✓ Accuracy: ±0.1%F.S, ±0.25%F.S, ±0.5%F.S
- ✓ Stability 0.25%F.S/Year(typical), 0.4%F.S/Year(maximum)
- ✓ Signal Output: 4~20mA, 0~10/20mA, 0/5~10V
- ✓ Power supply: 12~30Vdc



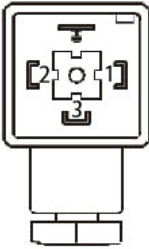
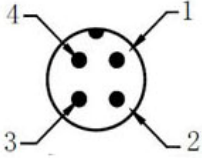
Applications

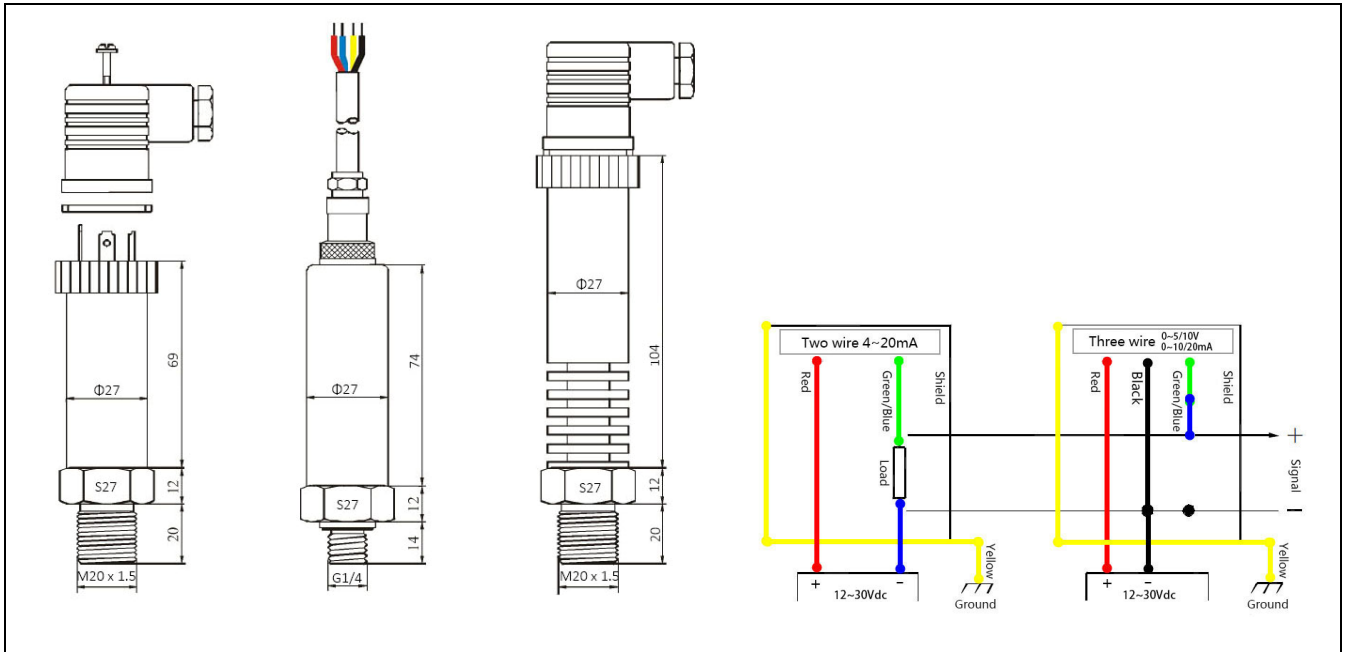
Construction Machinery | Automobile engines | High-pressure common-rail engine | Hot and Cold environment | Deep well hydraulic detection | Boiler pressure detection | Natural gas storage equipment | Hydraulic lubrication

Product Introduction

EST380 line is Sputter Thin Film pressure transmitter featuring heat-resistance, wide range and high accuracy. The product is widely used for the measurements of gas and liquid, such as water, oil and other light corrosive liquid and gas.

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, 0~10V, 0~20mA 0~10mA			
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, 0~10V, 0~20mA, 0~10mA			
				



Specifications

Measuring Range	0~0.1MPa...150MPa			Insulation	>100MΩ@50V
Overload pressure	2 times of rated pressure			Electric Strength	500V@60second
Burst Pressure	4-10 times of rated pressure ±0.5/55℃; Note temperature effect error is doubled at range 3; the error for analog model is doubled			Vibration/Shock	10g/5~2000Hz, axes X/Y/Z20g sine 11ms
Accuracy	±0.25%F.S; ±0.5%F.S			Pressure type	gage pressure (G), seal gage pressure(S), response time: 10ms
Stability	0.25%F.S/Y, 0.4%F.S/Ymax			Display	-999~1999
Working temperature	-40~150℃; (Customize -50~230℃)			Pressure durability	2 x 10 ⁶ pressure cycle@25℃
Compensation temperature	-10~100℃			Safety Level	Intrinsically Safe E; Explosion-proof D
Medium compatibility	All 1Cr18Ni9Ti-compatible corrosive mediums			Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2 Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire /four-wire			
Output Signal	4~20mA	0~20mA	0~10mA	0~5Vdc	0~10Vdc
Power supply	10~30Vdc 12~30Vdc/ac				
Load resistance	(U-10)/0.02(Ω)	(U-10)/0.02(Ω)		>20k Ω	
Electrical Connections	DIN43650, IP65; GX 16-7, IP45; Wire jacket connection, IP68; Waterproof connection; Packard				
Pressure connection	M20 x 1.5, G1/4, G1/2, NPT1/2, R1/2, NPT1/4				
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa					

Ordering Procedure

EST	Heat-resistant Pressure Transmitter									
	Code	Model								
	380G	Universal								
	380E	Intrinsically safe and explosion-proof								
	380D	Explosion-proof								
	380C	+ display								
	Cod	Span								
	1	0~0.1MPa...200MPa								
	Code	Output Type								
	A	4~20mA								
	A1	0~10mA								
	A2	0~20mA								
	V	0~5V								
	V2	0~10V								
	Code	Precision								
	0.25	±0.25%F.S								
	0.5	±0.5%F.S								
	Code	Power Supply								
	DC12	12~30 Vdc								
	Code	Pressure connections								
	M	M20 x 1.5								
	G2	G1/2								
	G	G1/4								
	N2	NPT1/2								
	N	NPT1/4								
	R	R1/2								
	Code	Electrical Connections								
	H	DIN43650A								
	GX	GX16-7								
	C	Waterproof wire jacket connection								
	CW	Waterproof cable conduit connections								
	P	Packard								
	Code	Cable length XXm=... m								
	Code	Packing								
	Bb	Bubble bag								
	Foa	Plastics foam								
EST	380G	1	A	0.25	DC12	G	C	1.5m	Bb	