

EST383 Pressure transmitter for Construction Machinery Industry

- ✓ Pressure type: Gauge Pressure
- ✓ Range: 0~5MPa~80MPa
- ✓ Accuracy: $\pm 0.5\%$ F.S
- ✓ Stability 0.2%F.S/Year(typical), 0.4%F.S/Year(maximum)
- ✓ Customized working temperature: $-40^{\circ}\text{C}\sim 150^{\circ}\text{C}$
- ✓ Signal Output: 4~20mA, 1~5V, 0.5~4.5V
- ✓ Power supply: 8/10~30Vdc, 5V(Ratio)
- ✓ Sensing Element: Sputter Thin Film
- ✓ OEM: Available



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

EST383 line is industrial pressure transmitter, featuring heat-resistance, wide range and high stability. The product is widely used for the measurements of gas and liquid, such as water, oil and light corrosive liquid and gas. Adopting 1Cr18Ni9Ti stainless steel construction and the professional V/I converting circuit, EST383 line is easy for zero/span trim.

Electrical Connections and Dimensional drawings

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

Two wire 4~20mA

Three wire 1-5V, 0.5-4.5V

Specifications

Range	0~5MPa...80MPa		Insulation	>100MΩ@50V
Overload	2 times of rated pressure		Electric Strength	500V@60second
Burst Pressure	10 times of rated pressure ±0.5/55°C; 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	±0.5%F.S;		Pressure Type	GP (G)
Stability	0.2%F.S/Y, 0.4%F.S/Ymax		Response Time	10ms
Working Temperature	-40~150°C		Pressure Durability	1 x 10 ⁸ pressure cycle@25°C
Compensation Temperature	-20~120°C		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		
Output Signal	4~20mA	1~5Vdc		0.5~4.5Vdc
Power Supply	10~30Vdc	8~30Vdc/ac		5Vdc(Ratio)
Load Resistance	(U-10)/0.02(Ω)	>100kΩ		
Electrical Connections	DIN43650, IP65; GX 16-7, IP45; Wire jacket connection, IP68; Waterproof connection:		Pressure Connection	M20 x 1.5, G1/4, G1/2, NPT1/2, R1/2
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa				

Ordering Procedure

EST	Pressure transmitter for Construction Machinery Industry						
	Code	Model					
	383	Universal					
		Cod	Span				
		1	0~5MPa...80MPa				
		2	0~50bar...800bar				
		Code	Output Type				
		A	4~20mA				
		V1	1~5Vdc				
		V05	0.5~4.5Vdc				
		Code	Power Supply				
		DC5	5Vdc				
		DC8	8~30 Vdc				
		DC10	10~30 Vdc				
		Code	Pressure connections				
		M	M20 x 1.5				
		G2	G1/2				
		G	G1/4				
		R2	R1/2				
		N2	NPT1/2				
		Code	Electrical Connections				
		H	DIN43650A				
		GX	GX16-7				
		C	Wire jacket protection				
		CW	Waterproof cable conduit connections				
		Code	Cable length XXm=... m				
		Code	Packing				
		Bb	Bubble bag				
		Foa	Plastics foam				
EST	383	1	A	DC5	M	H	Bb