

# EST330 High Accuracy Piezoresistive Pressure Transmitter

- ✓ Pressure type: Gauge/Seal Gauge Pressure
- ✓ Range: -0.1Mpa...-0.01Mpa~0.01MPa...100MPa
- ✓ Accuracy:  $\pm 0.1\%F.S.$ ,  $\pm 0.2\%F.S.$ ,  $\pm 0.25\%F.S.$ ,  $\pm 0.5\%F.S.$
- ✓ Stability: 0.25%F.S/Year(typical), 0.4%F.S/Year(maximum)
- ✓ Customized working temperature:  $-40^{\circ}C \sim 125^{\circ}C$
- ✓ Signal Output: 4~20mA, 0~20mA 0/1~5V, 0.5~3/4.5V, 0~10V
- ✓ Power supply: 10/11~30Vdc, 8~24Vdc, 5V(ratio), 8/11~30V
- ✓ Optional Field Display



## Applications

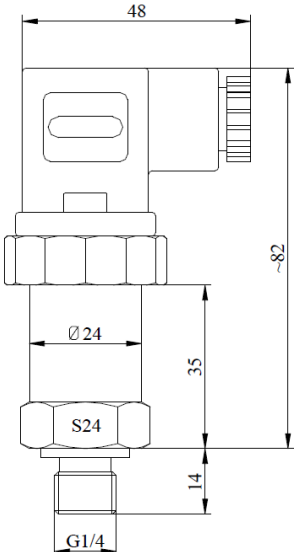
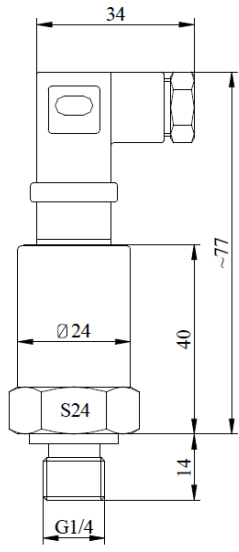
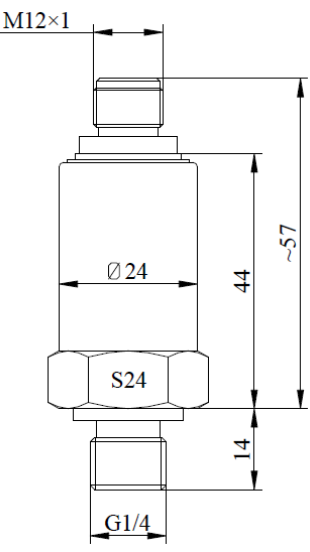
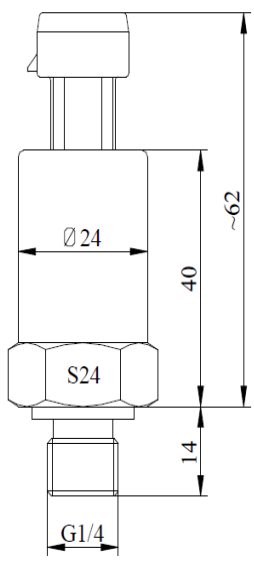
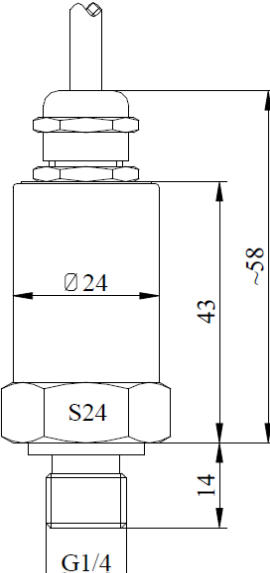
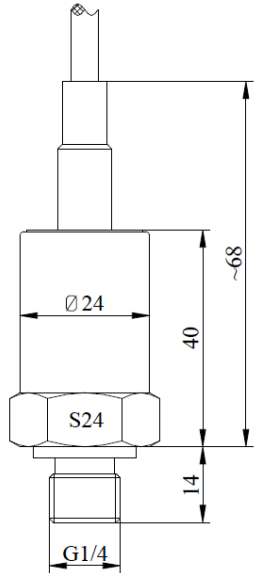
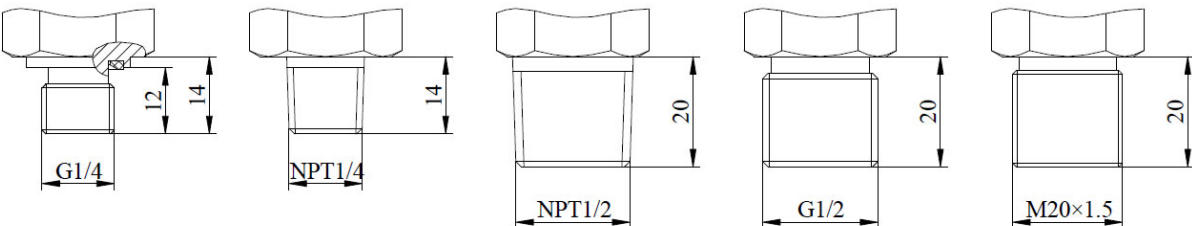
Gas dispenser | Refrigerator | Hydraulic control | Farm equipment |  
Pressure Gauge | Energy and water treatment | Real-time well management |  
Automatic detection system

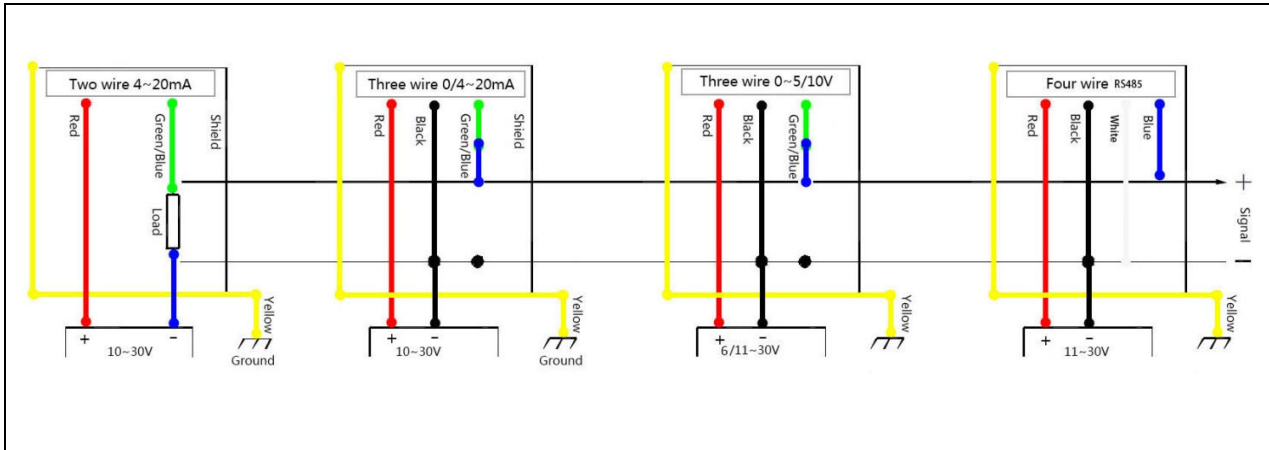
## Product Introduction

EST330 is a reliable industrial pressure transmitter with high accuracy (0.1%). With adjustable range, the product is applicable to the pressure 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	Cable	Three wire	Hirschman	Four wire	DIN43650 A		U+ / I+ = 1
Red	Excitation	Red	Excitation	1	Excitation			U- / I- = 2
Blue/Green	Output	Black	GND	3	GND	DIN43650 C		S+ = 3
		Blue/Green	Output	2	RS485+			Shield = 4 / Housing
Black	Shield	Yellow	Shield	$\equiv$		M12 x 1/4 Pin		U+ / I+ = 1
		White			RS485			U- / I- = 2
Signal output						Packard Menu-Pack		S+ = 3
Two wire	4~20mA							Shield = 4 / Housing
Three wire	0~20mA, ~5V, 0.5~4.5V, 0~10Vac, 1~5V, 0.5~3V							U+ / I+ = 1
Four wire	RS485					Cable outlet		U- / I- = 3
Electrical connection								S+ = 4
Cable	Two wire	Cable	Three wire	GX16-7	Four wire	Cable outlet		Shield = 2 / Housing
Red	Power	Red	Power	1	Power			U+ / I+ = B
Blue/Green	Output	Blue/Green	Output	2	RS485+			U- / I- = A
Black	Shield	Black	GND	3	GND			S+ = C
Yellow		Yellow	Shield	4		Cable outlet		Shield =Housing
		White			RS485			U+ / I+ = Red
Signal output						Cable outlet		U- / I- = Black
Two wire	4~20mA							S+ = Green/Blue
Three wire	0~20mA, ~5V, 0.5~4.5V, 0~10Vac, 1~5V, 0.5~3V							Shield =Housing/Yellow
Four wire	RS485							

DIN43650 A	DIN43650 C	M12 x 1 (4-pin)
		
Packard Metri-Pack	Cable Outlet A	Cable Outlet B
		
		



## Specifications

Measuring Range	-0.1MPa...-0.01MPa~0~0.01MPa...100.0MPa		Medium compatibility	All 1Cr18Ni9Ti-compatible corrosive mediums
Overload pressure	1.5 times of rated pressure		Insulation	>100MΩ@50V
Burst Pressure	3 times of rated pressure ±0.5/55°C; Note temperature effect error is doubled at range 3; the error for analog model is doubled		Electric Strength	500V@60second
Precision	Accuracy		Electrical Connections	DIN43650-A, GX16-7, cable electrical connection
Stability	0.25%F.S/Y, 0.4%F.S/Ymax		Process connection	M20 x 1.5, G1/2, R1/4, NPT1/2;
Working temperature	-40~85°C, (-40~125°C Customize)		Safety Level	Intrinsically Safe E; Explosion-proof D;
Compensation temperature	-10~70°C, (Customizable for full temperature range)		Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire		
Output Signal	4~20mA	0~20mA	0~5Vdc	0.5~4.5Vdc
Power supply	10~30Vdc	0~10Vdc	1~5Vdc	0.5~3Vdc
Load resistance	(U-10)/0.02(Ω)	11~30Vdc	8~24Vdc	5V (Ratio)
		Current: (U-10)/0.02(Ω); Voltage>20kΩ		
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa				

## Ordering Procedure

EST	High Accuracy Piezoresistive Pressure Transmitter	
	Code	Model
	330	Universal
	330E	Intrinsically safe and explosion-proof
	330D	Explosion-proof
	330C	Display and Control
	330S	Heat-resistant (High Temperature)
	330F	Flush
	Cod	Span
	1	-0.1MPa...-0.01MPa~0~0.01MPa...100.0MPa;
		Code
	A	Output Type
		4~20mA

		V		0~5V					
		V1		1~5V					
		V05		0.5~4.5V					
		V2		0~10V					
		VD1		RS485					
				Code		Precision			
				0.1		±0.1%F.S			
				0.2		±0.2%F.S			
				0.25		±0.25%F.S			
				0.5		±0.5%F.S			
				Code		Power Supply			
				DC5		5Vdc			
				DC24		24 Vdc			
				DC6		6~24 Vdc			
				DC10		10~30 Vdc			
				DC11		11~30 Vdc			
				Code		Process connection			
				M		M20 x 1.5			
				G2		G1/2			
				R2		R1/2			
				N2		NPT1/2			
				G		G1/4			
				Code		Electrical Connections			
				H		DIN43650-A			
				C		Cable Electrical Connection			
				CW		Waterproof cable conduit connections			
				Code		Cable length XXm=... m			
						Code		Packing	
						Bb		Bubble bag	
						Foa		Plastics foam	
EST	330	1	A	0.25	DC5	M	C	1.5m	Bb