

EST3120 Pressure Transmitter for Refrigeration Industry

- ✓ Pressure type: Gauge/Absolute Pressure
- ✓ Range: 0~2bar~600bar
- ✓ Accuracy: $\pm 0.25\%F.S$, $\pm 0.5\%F.S$, $\pm 1.0\%F.S$
- ✓ Stability $0.5\%F.S/Year$ (typical), $1.0\%F.S/Year$ (maximum)
- ✓ Customized working temperature: $-40^{\circ}C \sim 100^{\circ}C$
- ✓ Signal Output: 4~20mA, 0.5~4.5V
- ✓ Power supply: 10~30Vdc, 5V(Ratio)
- ✓ OEM: Available



Applications

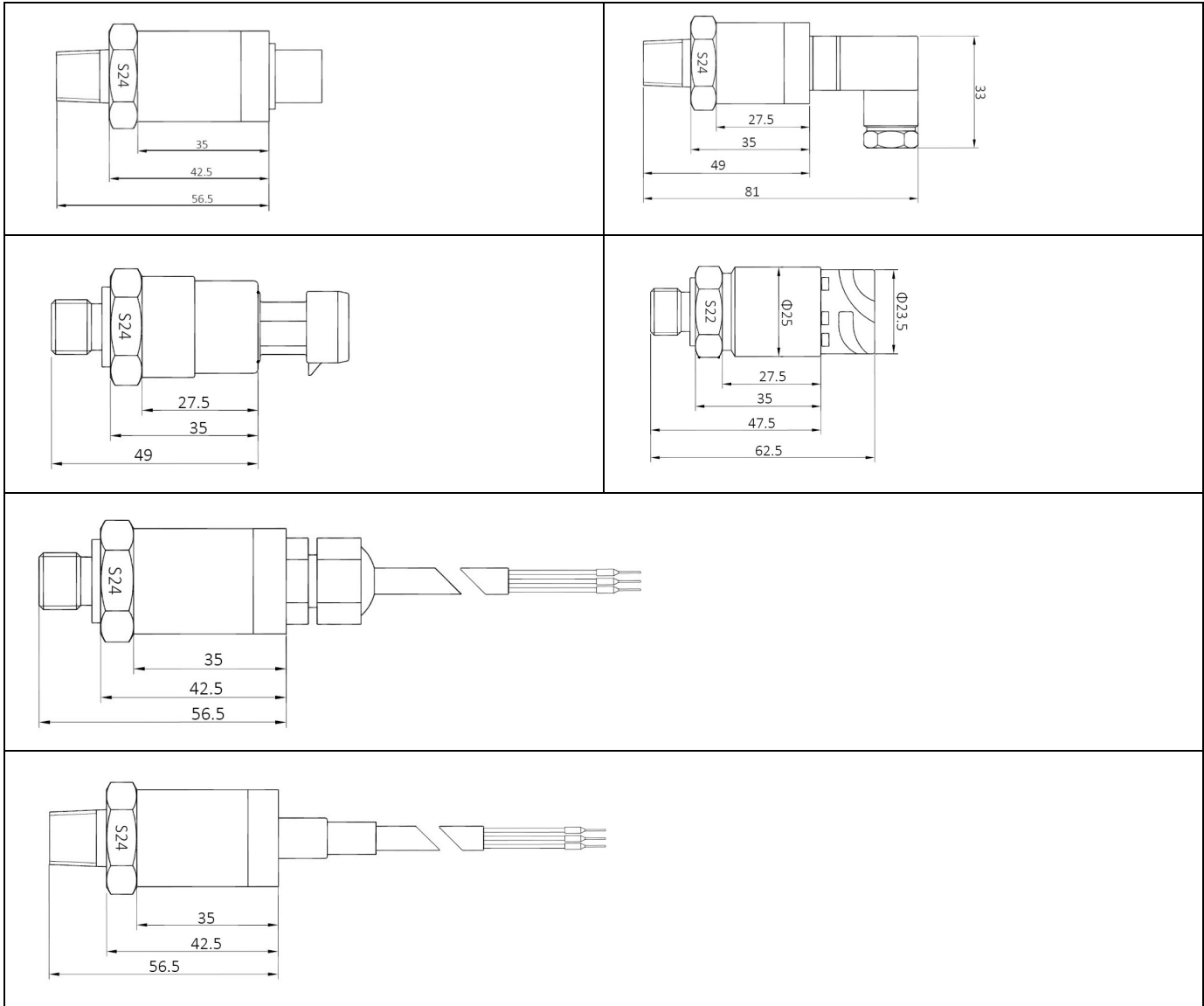
Compressor | Building water supply | Hydraulic control | Air conditioning unit | Automobile engine | Automatic detection system | Hydraulic station| Refrigeration equipment

Product Introduction

EST3120 line is low-cost pressure transmitter of high quality and reliability. Aiming for both civil and industrial purposes, the product is available for OEM. Being small in size and light in weight, the compact product is widely used for the field measurements of compressors, automobiles and air conditioners.

Electrical Connections and Dimensional drawings

Electrical connection						
Cable	Two wire	Cable	Three wire	Hirschman	12M-3B	Packard
Red	Power	Red	Power	1	1	B
Blue/Green	Output	Blue/Green	Output	2	2	C
		Black	GND	3	3	A
Black	Shield	Yellow	Shield	≡		
Signal output						
Two wire	4~20mA					
Three	0.5~4.5V					



Specifications

Measuring Range	0~2bar...600bar	Insulation	>100MΩ@50V
Overload pressure	1.5 times of rated pressure	Electric Strength	500V@60second
Burst Pressure	3 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; ±1.0%F.S	Pressure type	GP (G), AP(A)
Stability	0.5%F.S/Y, 1.0%F.S/Ymax;	Response time:	10ms
Working temperature	-40~100℃	Pressure durability	2 x 10 ⁶ pressure cycle@25℃
Compensation temperature	-10~80℃	Safety Level	Intrinsically safe and explosion-proof E

Medium compatibility	All corrosive mediums compatible with 1Cr18Ni9Ti and ceramics	Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire	
Output Signal	4~20mA	0.5~4.5Vdc	
Power supply	10~30Vdc	5Vdc	10~30Vdc/ac
Load resistance	(U-10)/0.02(Ω)	>100kΩ	
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, NPT1/4, 7/16-20UNF;		
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa			

Ordering Procedure

EST	Pressure transmitter for air compressor industry									
	Code	Model								
	3120G	Universal								
	3120A	Current type								
	3120V	Voltage type								
	3120KX	Frequency water supply system								
		Cod	Span							
		1	0~2bar...600bar							
			Code	Output Type						
			A	4~20mA						
			V05	0.5~4.5Vdc						
				Code	Precision					
				0.25	±0.25%F.S					
				0.5	±0.5%F.S					
				1.0	±1.0%F.S					
				Code	Power Supply					
				DC10	10~30 Vdc					
				DC5	5Vdc					
				Code	Pressure connections					
				G	G1/4					
				N	NPT1/4					
				U	7/16-20UNF					
				M	M20x1.5					
				G2	G1/2					
				Code	Electrical Connections					
				H	DIN43650C					
				GX	GX12-3					
				C	Wire jacket protection					
				CW	Waterproof cable conduit connections					
				P	Packard					
				Code	Cable length XXm=... m					
					Code	Packing				
					Bb	Bubble bag				
					Foa	Plastics foam				
EST	3120V	1	A	0.5	DC10	G	C	1.5m	Bb	