

EST-air Pressure Transmitter for Aviation & High-speed Rail Industry

- ✓ Pressure type: Gauge Pressure
- ✓ Range: 0~0.1MPa...60MPa
- ✓ Accuracy: $\pm 0.1\%F.S$
- ✓ Stability: 0.1%F.S/Year (typical)
- ✓ Customized working temperature: $-40^{\circ}C \sim 85^{\circ}C$
- ✓ Signal Output: 4~20mA, 1~5V, 0.5~4.5V
- ✓ Power supply: 10~30Vdc, 5V(Ratio), 8~30Vdc
- ✓ OEM: Available



Applications

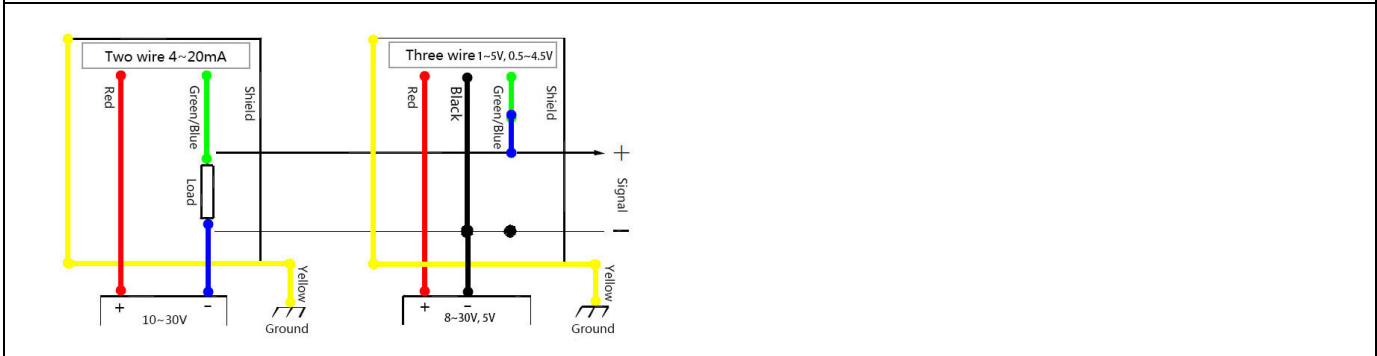
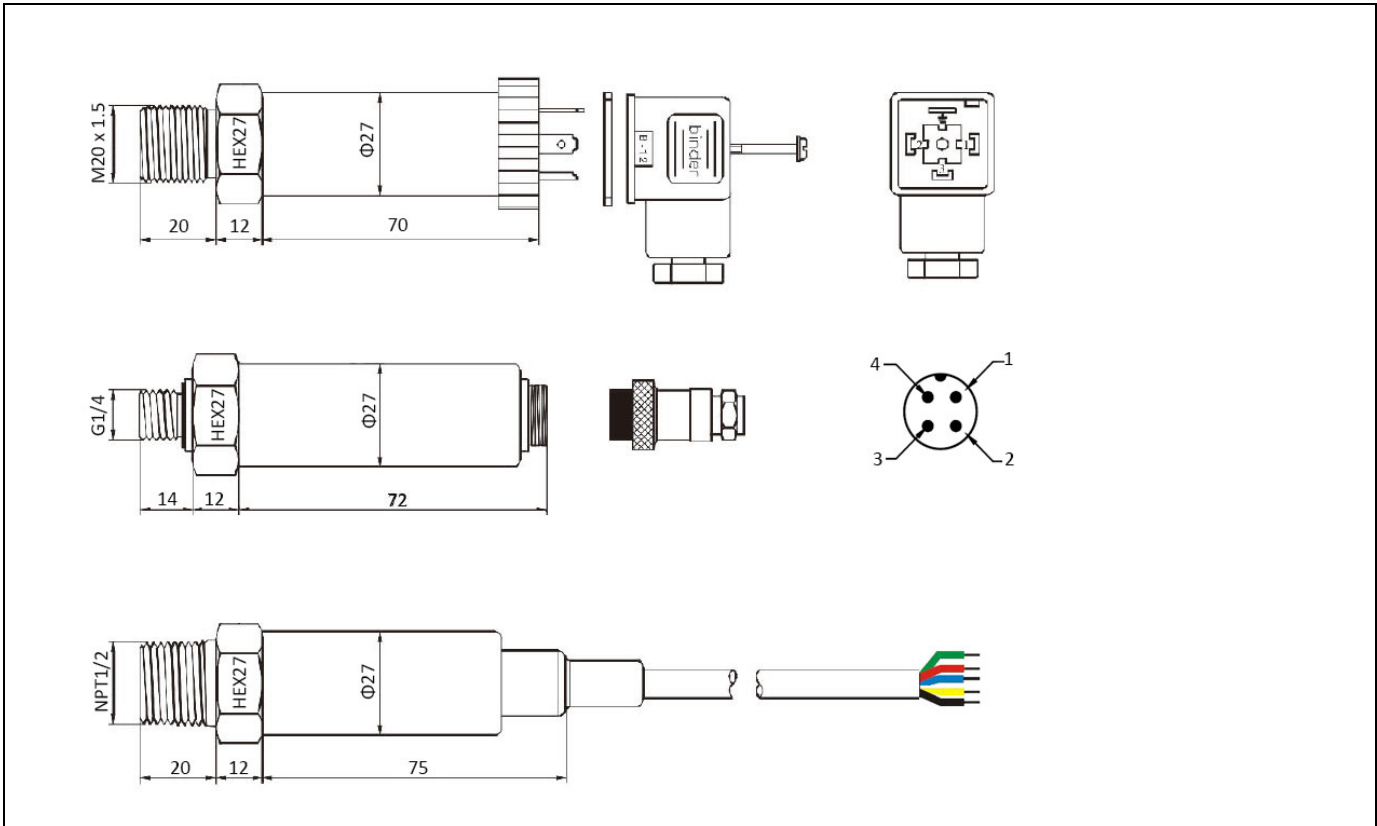
VRF Hydraulic control | Energy and Transportation | Shipbuilding industry
| Offshore oilfield | Energy and Water treatment

Product Introduction

Featuring high accuracy, high reliability, and full temperature compensation, the EST-air line is widely used for the measurements of gas and liquid, such as water, oil and light corrosive liquid and gas. The product adopts 1Cr18Ni9Ti stainless steel construction, high-accuracy sensor, and specially designed converting circuit. It is easy to perform zero/span trim. Two-wire circulating current output; Three-wire voltage/current output

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	\equiv	
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	0~0.1Mpa...60Mpa	Insulation	>100MΩ@50V
Overload pressure	2 times of rated pressure	Electric Strength	500V@60second
Accuracy	±0.1%F.S	Vibration/Shock	10g/5~2000Hz, axes X/Y/Z20g sine 11ms;
Stability	0.1%F.S/Y	Pressure type	GP (G)
Working temperature	-40~85℃	Response time	10ms
Compensation temperature	-40~85℃	Pressure durability	1x 10 ⁸ pressure cycle@25℃
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	1~5Vdc	0.5~4.5Vdc
Power supply	10~30Vdc	8~30Vdc	5V(Ratio)

Load resistance	(U-10)/0.02(α)	>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, NPT1/2, R1/2	
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa		

Ordering Procedure

EST	Piezoresistive pressure transmitter						
	Code	Model					
	air	Universal					
	Cod	Span					
	1	0~0.1...60MPa					
	2	0~1bar...600bar					
	Code	Output Type					
	A	4~20mA					
	V1	1~5Vdc					
	V05	0.5~4.5Vdc					
	Code	Power Supply					
	DC5	5Vdc					
	DC24	24 Vdc					
	DC6	6~24 Vdc					
	DC10	10~30 Vdc					
	DC11	11~30 Vdc					
	Code	Pressure connections					
	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	air	1	A	DC5	M	H	Bb