

EST350X Compact Differential Pressure Transmitter

- ✓ Pressure type: Differential Pressure
- ✓ Range: 0~±5KPa...10000KPa
- ✓ Accuracy: ±0.25%F.S, ±0.5%F.S
- ✓ Stability 0.25%F.S/Year(typical), 0.5%F.S/Year(maximum)
- ✓ Customized working temperature: -40°C~120°C
- ✓ Signal Output: 4~20mA, 0/5~10V
- ✓ Power supply: 8/10/11~30Vdc/ac
- ✓ Diffused silicon-oil fill system
- ✓ Anti-EMI and Lightning protection
- ✓ Ingress Protection: IP65
- ✓ OEM: Available



Applications

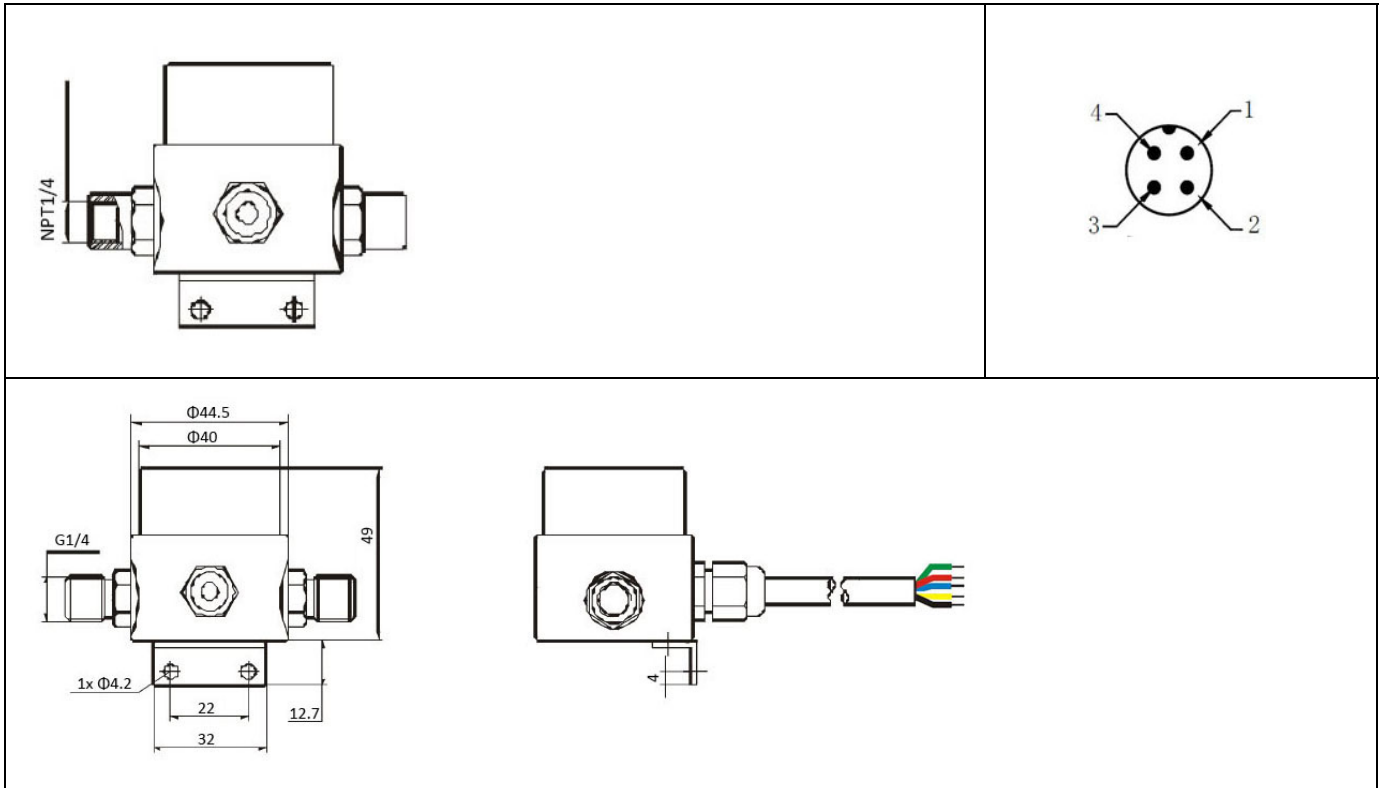
Waterhead at hydropower station | Wastewater treatment| Urban flood control and waterlogging prevention | Underwater engineering | Groundwater monitoring | Air-supply system of thermal power plant | Oilfield flooding | Ventilation monitoring system under mine

Product Introduction

EST350X line is wide-range DP transmitter. Featuring high reliability, stability and accuracy, the product is widely used for measuring differential pressure of liquid and gas. The product adopts 1Cr18Ni9Ti stainless steel or brass housing, imported oil fill DP sensor, specially designed V/I converting amplifying circuit, and features high-voltage/current protection, strong magnetic field and non-polarized connection. non-polarized two-wire output and DC-AC three-wire output.

Electrical Connections and Dimensional Drawings

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	0/1~5V, 0~10V		



Specifications

Measuring Range	0~±5kPa...±10000KPa		Electrical Connections	Wire jacket protection; Waterproof connection, IP65
Overload pressure	1.5 times of rated pressure		Pressure connection	G1/4 female thread; G1/4 male thread; NPT1/4 female thread
Pipe static pressure	3,5,10 times of rated pressure, 20MPa ±0.5/55°C; Note temperature effect error is doubled at range 3; the error for analog model is doubled		Electric Strength	500V@60second
Accuracy	±0.25%F.S; ±0.5%F.S		Lightening protection	Air-conduction pressure : 8000V, Shell & cable conduction pressure: 4000V
Stability	0.25%F.S/Y, 0.5%F.S/Ymax;		Vibration/Shock	10g/5~2000Hz, axes X/Y/Z20g sine 11ms;
Working temperature	-40~85°C; (Customize -40~120°C)		Response time:	10ms
Compensation temperature	-10~70°C		Pressure durability	2 x 10 ⁶ pressure cycle@25°C
Medium compatibility	All 1Cr18Ni9Ti-compatible corrosive mediums		Safety Level	Intrinsically Safe E; Explosion-proof D
Insulation	>100MΩ@50V		Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2 Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire		
Output Signal	4~20mA	0~5Vdc	1~5Vdc	0~10Vdc
Power supply	10~30Vdc	8~30Vdc/ac		11~30Vdc/ac
Load resistance	(U-10)/0.02(Ω)	>100kΩ		
1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa				

Ordering Procedure

EST	Compact Differential Pressure Transmitter									
	Code	Model								
	350X	Universal								
		Code	Span							
		1	0~±5kPa...±10000KPa;							
			Code	Output Type						
			A	4~20mA						
			V	0~5V						
			V1	1~5V						
			V2	0~10V						
				Code	Precision					
				0.25	±0.25%F.S					
				0.5	±0.5%F.S					
					Code	Power Supply				
					DC24	24 Vdc				
					DC8	8~30 Vdc				
					DC10	10~30 Vdc				
					DC11	11~30 Vdc				
						Code	Pressure connections			
						GF	G1/4 female thread			
						G	G1/4			
						NF	NPT1/4 female thread			
						N	NPT1/4			
							Code	Electrical Connections		
							C	Waterproof wire jacket connection		
							CW	Waterproof cable conduit connections		
								Code	Cable length XXm=... m	
									Code	Packing
									Bb	Bubble bag
									Foam	Plastics foam
EST	350X	1	A	0.25	DC24	G	C	1.5m	Bb	