

Differential Pressure Transmitter GPT250

Description

GPT250 series differential pressure transmitter is a high reliability, high stability and high accuracy differential pressure transmitter

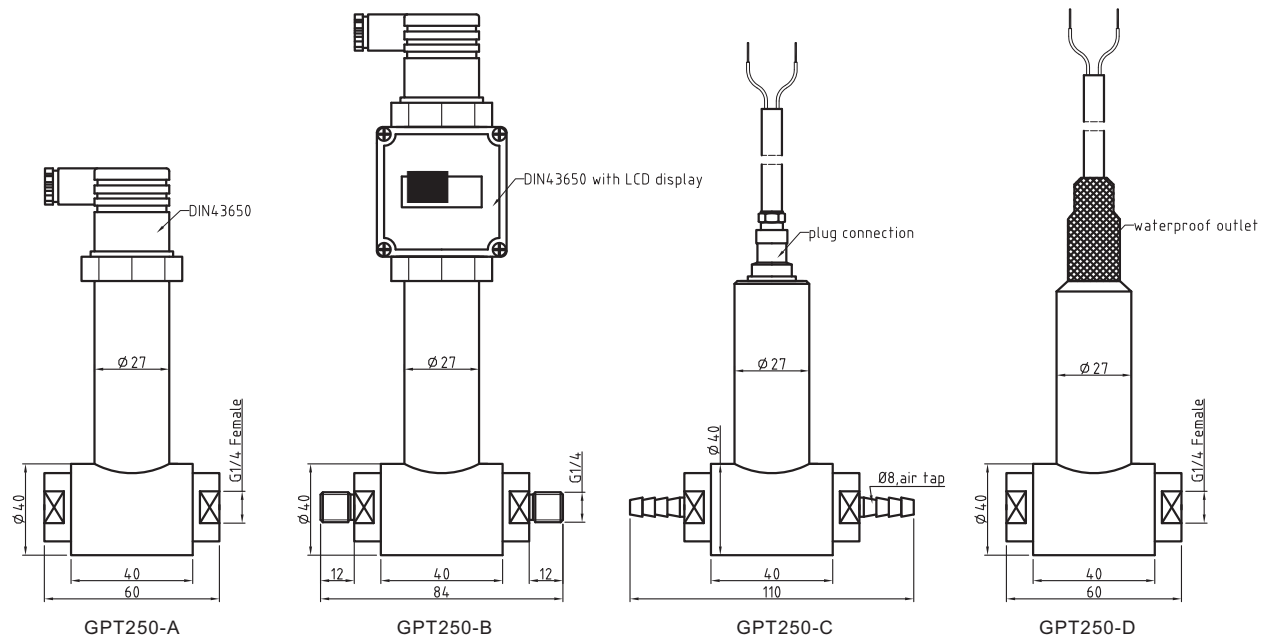
by our R&D Dept recent years research. Widely used in liquid , gas differential pressure measurement, such as water, oil, mild corrosive liquid. This product adopt 1Cr18Ni9Ti stainless steel. The imported oil-filled differential pressure core, special amplifier and V/I convertor to switch circuit ensure resistance to high voltage, current and magnetic field and non-polarity leads. This product has got intrinsic safety certification, explosion proof certification and CE certification.

This product can made programme calibration on request according to on-site environment.

The lead of two-wire circumfluent is no-polarity.



 Dimension(mm)



Features

- Accuracy: $\pm 0.25\text{FS}$, $\pm 0.5\%\text{FS}$
- OEM provided
- Diffuse silicon oil-filled core
- Multiple measurement range and signal output
- Various outside and inside screwed installation
- No-polarity two-wire current output
- Intrinsic safety certification
- explosion proof certification
- CE certification
- Powerful electromagnetic interference
- Lightning proof

Application

- Flow measurement
- Sewage treatment
- Wind differential pressure under coal-mine
- Hydroelectric station waterhead
- Urban flood proof and drain
- Underwater project
- Underground water monitoring
- Water-save irrigation

Technical Specifications

pressure range	0~±5kPa...±5MPa			
pressure type	differential presssure (D)			
overpressure	150%FS			
output signal	4~20mA	0~5Vdc	1~5Vdc	0~10Vdc
power supply	10~36Vdc	8~36Vdc	8~36Vdc	12~30Vdc
accuracy	0.25%FS(min.)		0.5%FS(typ.)	
long-term stability	≤0.3%FS/year			
temp.coefficient of zero	±0.02%FS/°C(typ.)		±0.05%FS/°C(max.)	
temp.coefficient of span	±0.02%FS/°C(typ.)		±0.05%FS/°C(max.)	
compensated temperature range	-10~+70 °C			
operating temperature range	-40~+85 °C			
storage temperature range	-40~+85 °C			
Insulating resistance	≥100MΩ@100Vdc			
load resistance	R≤(U-10)/0.02 (for 4/20mA)		R>100kΩ(for vottage output)	
electrical interface	DIN43650,waterproof outlet			
pressure interface	M20x1.5, G1/4, G1/2, 1/4NPT, 1/2NPT (customer request)			
material of pressure membrane	316LSS			
material of housing	1Cr18Ni9Ti stainless steel			
response time(10%~90%)	≤10ms			
shock/impact	10gRMS, (20 ~ 2000)Hz / 100g, 11ms			
protection	IP65(for DIN43650), IP(for waterproof lead)			
certification	CE			
EMC	EMI:EN50081-1/-2, EMS: EN50082-2			
lightning proof	Air-conduction pressure : 8000V, Shell & cable conduction pressure: 4000V			

 Ordering code

GPT250	Pressure Transmitter												
	Code	Pressure range											
	0/x	0~±5kPa...±5MPa											
		Code	Unit										
		M	MPa										
		B	Bar										
		P	Psi										
		Code	Pressure type										
		D	differential presssure (D)										
		Code	Output signal										
			T1	4-20mA									
			T2	0-5Vdc									
			T3	1-5Vdc									
			T4	0-10Vdc									
		Code	power supply										
			V1	8~36Vdc									
			V2	10~30Vdc									
			V3	5V									
		Code	accuracy										
			A1	0.25%FS									
			A2	0.5%FS									
		Code	Electrical interface										
			B1	DIN43650									
			B2	waterproof outlet									
		B3	can be customized										
		Code	Housing Material										
			S1	304 SS									
		S2	316L SS										
		Code	Pressure interface										
			C1	M20x1.5(male)									
			C2	G1/4(male)									
			C3	G1/2(male)									
			C4	1/4NPT(male)									
			Cx	other									
		Code	Explosion-proof function										
			E	Ex I explosion-proof									
	O	non-explosion-proof											
GPT250	1MPa	B	D	T4	V3	A2	B2	S2	C4	E	Complete specification		