

Differential Pressure Transmitter GPT250

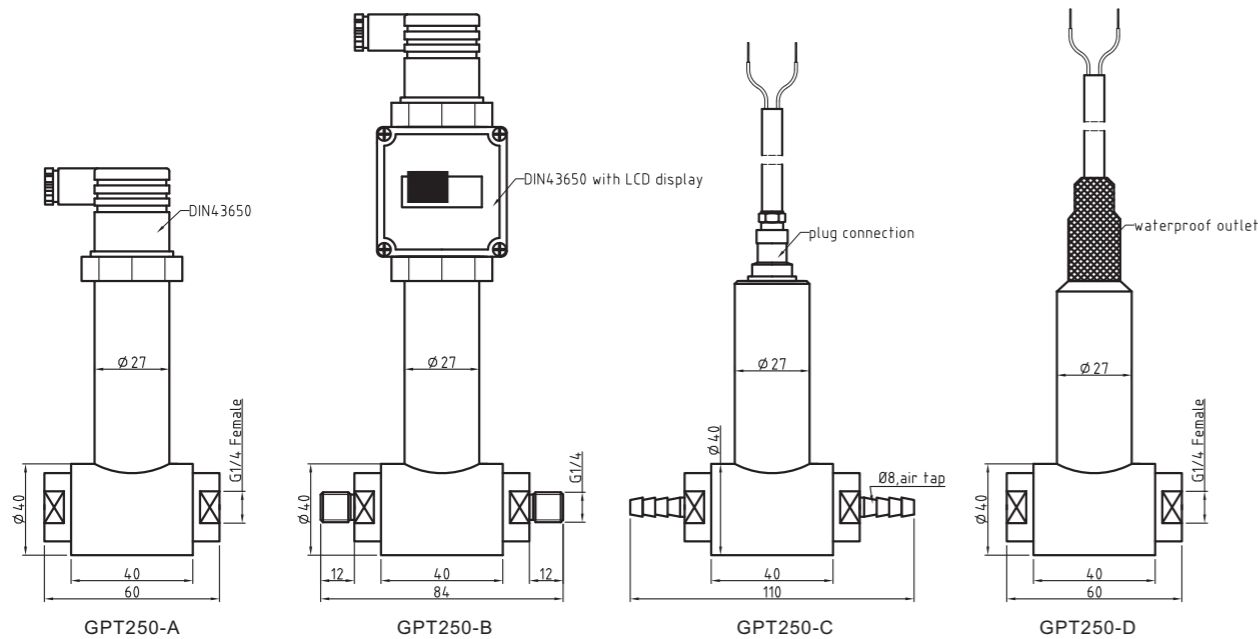
Description

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 adopts 1Cr18Ni9Ti stainless steel. The imported oil-filled differential pressure core, special amplifier and V/I converter 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 be programmed for calibration on request according to on-site environment.

The lead of two-wire circumfluent is non-polarity.

Dimension(mm)



Features

- Accuracy: $\pm 0.25\%FS$, $\pm 0.5\%FS$
- 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~ $\pm 5kPa$... $\pm 5MPa$			
pressure type	differential pressure (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	$\leq 0.3\%FS/year$			
temp. coefficient of zero	$\pm 0.02\%FS/^{\circ}C$ (typ.)		$\pm 0.05\%FS/^{\circ}C$ (max.)	
temp. coefficient of span	$\pm 0.02\%FS/^{\circ}C$ (typ.)		$\pm 0.05\%FS/^{\circ}C$ (max.)	
compensated temperature range	-10~+70 $^{\circ}C$			
operating temperature range	-40~+85 $^{\circ}C$			
storage temperature range	-40~+85 $^{\circ}C$			
insulating resistance	$\geq 100M\Omega@100Vdc$			
load resistance	$R \leq (U-10)/0.02$ (for 4/20mA)		$R > 100k\Omega$ (for voltage 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%)	$\leq 10ms$			
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 pressure (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