Model EPT3000-T series

High stability pressure transmitter Stainless steel pressure sensor Mass production, automated calibration



Features

- $\hfill \Box$ The highest accuracy be ±0.065%
- Overload pressure up to 60MPa
- □ Excellent overvoltage performance overpressure of 1kPa nominal range chip: 1MPa overpressure of 6kPa nominal range chip: 2MPa
- ☐ Flexible range of compression Range ratio up to: 100:1
- Excellent operability & convenient use
- ☐ Five-digit LCD with backlight
- View of units (Pa, kPa, MPa, bar, mbar, %, psi, mmH₂O)
- Quickly adjusted through built-in three buttons

Application

- Be suitable to measure liguid, gas or steam flow as well
- Process control systems
- Chemical industry
- Energy industry
- Machine building



Technical data

Performance

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Accuracy*	0.065%FS@25°C(Min.) 0.1%FS@25°C(Typ.) *Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	-40 to 85°C
Storage temperature	-40 to 90°C
Temp. coeff - Zero	±(0.08%range+0.055% upper limit of range)
Temp. coeff - Span	±(0.08%range+0.055% upper limit of range)
Vibration	20 g RMS(20 to 2000Hz)
Shock	100 g(10ms)
Cycles	10x10 ⁵
Effect of overpressure	±(0.065 %upper limit of range)/5MPa
Long Term Stability	±0.05 %upper limit of range/year

Electrical @25°C

Output signal / Supply	2-wire 420mA+HART / V _S = 10.5 45VDC	*Intrinsic safety explosion-proof DC10.5~26V
Load resistance	250~600 DC 24V,include cable resistance	
Insulation Resistance	100 MΩ@100VDC	
Load capacity	0.55mF	
Load inductance	3.3mH	
Spacing above power line	15cm(please avoid parallel wiring)	
Saturation current	Upper limit 20.8mA, lower limit 3.8mA	
Adjustment function	The zero & full span point can be adjusted in situ through three-by the housing or be adjusted remotely through configuration software.	
EMC Test	IEC61000-6-2/IEC61000-6-3	
Effect of Power supply	±0.005 %/1V	
Damp	The time constant can be adjusted from 0 to 99.9 seconds	
Reverse polarity protection	No damage – no function	

Physical Specifications

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Housing	Low copper aluminum die casting + polyurethane coating
Diaphragm	SUS316LSS,Hastelloy C-276,Tantalum
Sealing	NBR or Viton O-ring
Oil Filling	Silicone oil
Protection	IP67
Weight	~1.5kg(without cable)

The listed specifications and dimensions are subject to change without prior notice

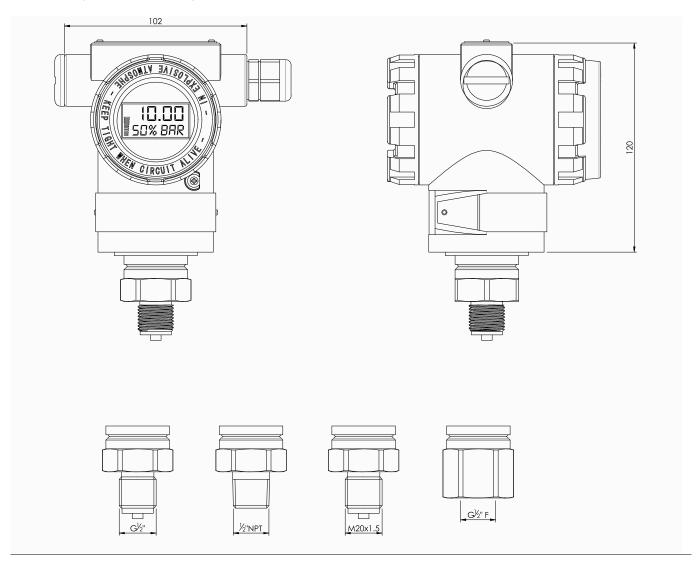


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Dimensions (All dimensions in mm)



Standard pressure range & URL

Code	Nominal pressure [bar]	Gauge	Absolute	Overpressure [bar]	
S1	00.06	√		10	
S2	00.1	\checkmark		20	
S3	00.4	\checkmark	\checkmark	40	
S4	01	√	\checkmark	70	
S5	04	\checkmark	\checkmark	70	
S6	040	\checkmark	√	100	
S7	0400	√		600	

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Ordering code

Model			
EPT3000-T	Pressure transmitter		
Code	Pressure range		
S1	60 mbar		
S2	100 mbar		
S3	400 mbar		
S4	1 bar		
S5	4 bar		
S6	40 bar		
S7	600 bar		
99	Customized range		
Code	Output signal		
A	420mA+HART Protocol		
Code	Accuracy		
01	0.065%FS	URL>100mbar	
02	0.1%FS	6.12 , 661.184.	
03	0.2%FS		
04	0.5%FS		
Code	Meterials		
2000	Membrane	Filled liquid	
22	316LSS	Silicone oil	
23	Hastelloy-C	Silicone oil	
24	Tantalum	Silicone oil	
25	316LSS gold plating	Silicone oil	
26	316LSS	Fluorocarbon oil	
Code	Mounting kit	That occurs on	
B0	No		
B1	L type mounting kit		
Code	Process connection		
D42	G1/2" (male)		
D43	1/2"NPT(male)		
D44	M20x1.5(male)		
D45	1/2"NPT(female)		
D46	G1/2" (female)		
D99	Customized		
Code	Electrical connection		
E1	M20x1.5		
E2	1/2"NPT		
Code	Meters		
M1	LCD display		
Code	Sealing meterials		
01	Fluororubber		
02	NBR		
Code	Exlosion-proof		_
N	No		
IA	Intrinsic safety and dust	explosion-proof approval	
D	Flame-proof and dust explosion-proof approval		
Code	Label		
S	Standard		
N	Neutral packing		
С	Custom label		