



technical specification

- Measuring range: 0... 5000 kpa can be customized
- Display unit: LCD LCD screen
- Power supply voltage: 12... 36VDC
- Output signal: 4... 20mA,HART
- Measuring accuracy: 0.5,0.2% F.S.
- ♦ Repeatability: ≤0.1% full scale
- ♦ Measuring hysteresis: ≤ ± 0.01% full scale
- ◆ Stability: < 0.01%/ year
- ◆ Medium temperature: -30... 300 ℃
- ◆ Ambient temperature: -30... 85 °C
- Electrical connection: Fastener, M20*1.5, NPT1/2
- Protection grade: IP65
- Explosion-proof mark: flameproof type EXDIICT6,
- intrinsically safe EXIA IICT6

principle and characteristics

PN52C series pressure (level) transmitters use capacitive pressure core working, high and low pressure side of the isolation diaphragm and filling fluid to transfer the process pressure to the filling fluid, and then the filling fluid to transfer the pressure to the sensor center of the sensing diaphragm. The sensing diaphragm is a tensified elastic element whose displacement varies with the pressure applied (for a gauge transducer, atmospheric pressure is applied as on the low pressure side of the sensing diaphragm). The adiabatic pressure transmitter maintains a reference pressure at all times on the low pressure side. The maximum displacement of the sensing diaphragm is 0.1 mm, and the displacement is proportional to the pressure. The capacitive plates on both sides detect the position of the sensing diaphragm and the capacitor plate is converted to the corresponding current or digital HART output signal.

Main features

- Stainless steel and Hastelloy Cr process isolation diaphragm
- Single isolation diaphragm design
- stable performance, high precision, high temperature resistance
- A variety of optional filling liquid, can meet the requirements of different occasions
- Range, zero external continuous adjustable
- Adjustable damping and high pressure resistance application

Mainly used for liquid and gas measurement such as: food, chemical, paper, medicine and other hygienic cleaning requirements of high temperature requirements, high viscosity medium and corrosion resistance needs occasions

code	range	code	range	code	rang
GP1	-1000kPa	GP7	0500kPa	GL5	05m
GP2	-100100kPa	GP8	02500kPa	GL6	06m
GP3	-100500kPa	GP9	05000kPa	GL10	010m
GP4	035kPa	GL1	01m	GL15	015m
GP5	0100kPa	GL2	02m	GL20	020m
GP6	0250kPa	GL3	03m	GL25	025m
noto					

Range of code

note

: 1bar=0.1MPa=100KPa=1.0197kg/cm2



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dimens ion figure



Selection table

PN52 C-	GP1	4	D2	M2	L3	А	А	specification		
PN52C								PN52C series pressure (liquid level)		
	GP							Optional range (see range table)		
	GM0							Range: 0–1.0 MPa		
	GM1							Range: 0–1.6 MPa		
	GM2							Range: 0–2.5 MPa		
	GM4							Range: 0–4.0 MPa		
	GM1							Range: 0 to 10 mpa		
	GL							Liquid level range (see range table)		
		4						Output 4 20mA		
		Н						Output 4 20mA+HART		
			D2					DN25 flange installation		
			D5					DN50 flange installation		
			D8					DN80 flange installation		
			K5					Clamp type (50.5mm outside diameter)		
				G				Self– Clinching Fasteners		
				M2				Electrical interface M20*1.5 inner teeth		
				N2				Electrical interface NPT1/2 inner teeth		
					L3			Capillary Length L (m) –– Standard 3 m		
					LA50			Inserting barrel length 50 (mm) – optional		
						A		Liquid stainless steel diaphragm 316L		
						В		Liquid polytetratiuoroethylene PIFE coating		
						C		Hastelloy alloy C coating		
						D	•	Moner metal		
							A	flame, proof type		
							Б	intrincia cafoty type		
							Δ1	A1. I CD display header A2. No display		
Optional accessories								B1 tube mounting bending support: B2 plate		
							D1 22	B3: Elat support for pipe mounting		
							C1			
							C2	T-thread joint M20x1 5		
							02			
							C3	Weld 14 pressure tubes at the back of 1/2NPT pressure transition joint		

* The type selection table is only for technical selection, and the corresponding type of the factory model is reflected by the code.