



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 °C

◆ 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

PN52B 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 diaphragm in the center of the sensor. 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. The capacitance difference between 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 fluid 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

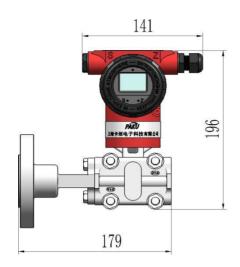
Range of code

code	range	code	range	code	range
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

Note: 1 bar = 0.1 MPa = 100 kpa = 1.0197 kg/cm2



dimension figure





Selection table

Selection table										
PN52B-	GP1	4	D2	M2	L30	Α	А	specification		
PN52B-								PN52B series pressure (liquid level) transmitter		
	GP							Optional range (see range table)		
	GM01							Range: 0-1.0 MPa		
	GM1.6							Range: 0-1.6 MPa		
	GM2.5							Range: 0-2.5 MPa		
	GM4.0							Range: 0-4.0 MPa		
	GM10							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		
					LA50			Inserting barrel length 50 (mm) - optional		
						Α		Liquid stainless steel diaphragm 316L		
						В		Liquid polytetrafluoroethylene PTFE		
						С		Hastelloy alloy C coating		
						D		Monel metal		
							Α	standard form		
							В	flame-proof type		
							С	intrinsic safety type		
							A1	LCD display header		
							B1	No display header		

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