Pressure (liquid level) transmitter PD61 series

Technical parameters

- Measurement range: 0... 5000 kpa can be customized
- Display unit: LCD LCD screen
- The power supply voltage：12...36VDC
- The output signal：4...20mA,HART
- Accuracy of measurement：0.5,0.2%F.S
- Repeatability: 0.1% full scale
- Measurement hysteresis: ±0.01% full scale
- Stability: < 0.01%/ year
- Medium temperature: -30... 80 ... 500
- Ambient temperature: -30... 85
- Electrical connection: fasteners, M20*1.5, NPT1/2
- Protection grade：IP66
- Explosion-proof mark: flameproof typeExdIICT6, This type ExiaIICT6 Ann

An overview of the

When the PD61 series pressure (liquid level) transmitter uses capacitive pressure core body to work, the isolation diaphragm and filling liquid at the high and low pressure sides will transfer the process pressure to the filling liquid, and then the filling liquid will transfer the pressure to the sensing membrane at the center of the sensor. The sensing diaphragm is a tensioned elastic element whose displacement varies with the pressure exerted (for gauge pressure transmitters, atmospheric pressure is applied as if on the low pressure side of the sensing diaphragm). The absolute 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. Capacitive plates on both sides detect the position of the sensing diaphragm. The capacitance difference between the sensing diaphragm and capacitive plate is converted to the corresponding current or digital HART output signal.

- 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
- External continuous adjustable range and zero point
- Damping adjustable, overpressure resistant

application

Mainly used for liquid and gas measurement such as: food, chemical industry, paper, medicine and other high hygiene requirements, high temperature resistance, high viscosity medium and corrosion resistance need occasions

Range of code

code	range	code	range	code	range
GP1	100...0kPa	GP7	0...500kPa	GL5	0...5m
GP2	-100...100kPa	GP8	0...2500kPa	GL6	0...6m
GP3	-100...500kPa	GP9	0...5000kPa	GL10	0...10m
GP4	0...35kPa	GL1	0...1m	GL15	0...15m
GP5	0...100kPa	GL2	0...2m	GL20	0...20m
GP6	0...250kPa	GL3	0...3m	GL25	0...25m
1bar=0.1MPa=100KPa=1.0197kg/cm^2					

Selection table

PD61									PD61 single flange pressure transmitter
	...								Range (see range table) or directly fill in the range value
		A							The output4...20mA
		R							The output4...20mA+HART
			D2						DN25Flange installation
			D5						DN50Flange installation
			D8						DN80Flange installation
			W5						Clamp type (50.5mm outer diameter)
				G					Self locking fastener
				M20					Electrical interface M20*1.5 inner teeth
				N12					Electrical interface NPT1/2 inner teeth
					L				Capillary length L (mm) low pressure end
						H...			Capillary length H (mm) high pressure end
							S		Liquid stainless steel 316L diaphragm
							P		Liquid polyteflon PTFE coating
							C		Liquid Hasloy C coating
								...	Special requirements can be noted