principle and characteristics

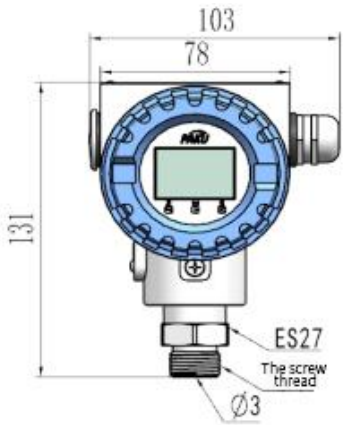
Based on ceramic capacitor technology, when the pressure applied to the ceramic capacitor increases, the capacitance value increases, and the capacitance value is proportional to the pressure value.

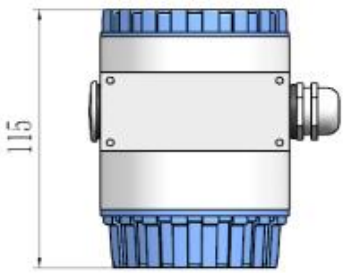
Strong overload capacity, good stability, due to the full range of 0.1% per year, strong anti–interference ability, extremely high accuracy and repeatability, up to 0.2, 0.5 level, ceramic measuring interface corrosion resistance. Flat film type can be used for viscous media. Zero point and full scale can be adjusted on site. With LED display.

product application

Pneumatic and hydraulic, can be used in hydraulic and pneumatic systems. Applicable to the following industries: steel industry/mechanical equipment/air compression industry/refrigeration and air conditioning/lifting and traditional series.

dimension figure



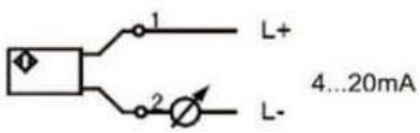


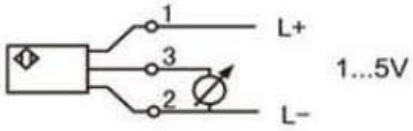
technical specification

- Range: See the table below
- Accuracy grade: 0.25%, 0.5%
- Hysteresis: ≤ ± 0.01% full scale
- Repeatability: ≤0.1% full scale
- Stability: better than 0.01% per year
- Temperature effect: < ± 0.02%FS/K
- Response time: < 5ms(10% to 90% range)
- Working voltage: 10... 36DC
- Load resistance: ≤1K
- Current consumption: signal current (two–wire), 8mA(three–wire)
- Ambient temperature: –30... 85 ℃
- medium temperature: –30... 80℃ storage temperature: –30... 85 ℃
- Protection grade: IP65

Shell material: aluminum alloy

wiring diagram





Range of code

Standard range (relative pressure)	code		Standard range (absolute pressure)	code
–1...0bar	NO		0...1bar	A1
–1...1bar	N1		0...2bar	A2
–1...3bar	N3		0...5bar	A5
–1...24bar	N24		0...7bar	A7
0...1bar	P1		0...10bar	A10
0...2bar	P2		0...20bar	A20
0...3.5bar	P3.5		0...35bar	A35
0...5bar	P5		0...70bar	A70
0...7bar	P7		0...100bar	A100
0...10bar	P10		0...150bar	A150
0...20bar	P20		0...175bar	A175
0...35bar	P35		0...200bar	A200
0...70bar	P70		0...275bar	A275
0...100bar	P100		0...300bar	A300
0...150bar	P150			
0...175bar	P175			
0...200bar	P200			
0...275bar	P275			
0...300bar	P300			

* If the required range is not in the standard list, please indicate it when ordering. It can be calibrated according to customer requirements。

Selection table

PN300–	P20	A	1	4	M2	specification
PN300–						PN300 series universal pressure transmitter
	P20					Range code (available from the range code table)
						Customized range: user–defined
		A				no display
		B				With LED display header
			1			Accuracy grade: 0.25%
			2			Accuracy grade: 0.5%
				4		4–20mA analog output
				1		1–5V analog output
				0		0–10V analog output
					G2	Connection: G1/2 female thread
					M2	Connection mode: M20*1.5 external thread
						Custom thread

* The selection table is only available for parameter selection, and the corresponding code is delivered.