

principle and characteristics

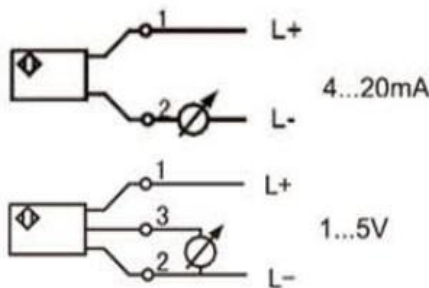
- ◆ Adopt advanced diaphragm isolation technology
- ◆ Integrated chip, wide voltage power supply
- ◆ compact structure, easy installation
- ◆ Frequency cutting design, strong anti-jamming ability, lightning protection
- ◆ Current limiting, voltage limiting, reverse connection protection (current output only)
- ◆ High accuracy, good stability, fast response, impact resistance
- ◆ selects the high-end sophisticated sensor as the original pressure measurement

technical specification

- ◆ Measurement range: customized according to user requirements
- ◆ Measurement medium: liquid or gas (compatible with contact material)
- ◆ Overall material: diaphragm 316L stainless steel (contact)
Process connection 304 stainless steel (contact)

The outer shell is 304 stainless steel

wiring diagram



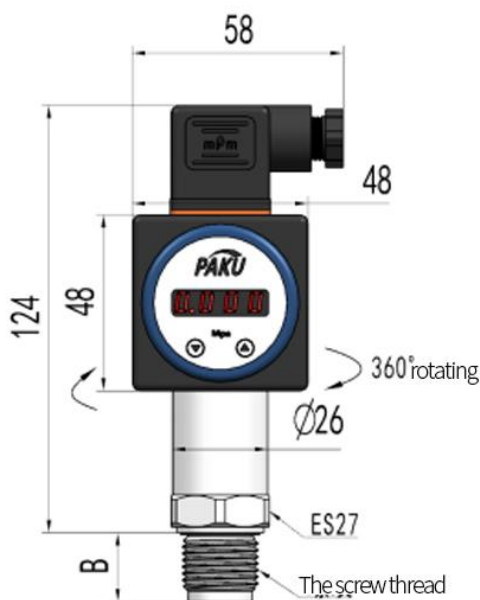
Nitrile rubber seals (contact)

Display shell ABS engineering plastics (digital tube display)

Hersman joint ABS engineering plastics

- ◆ Pressure range: 100kPa ~ 0 ~ 100MPa (see range selection table for details)
- ◆ Pressure mode: surface pressure, absolute pressure, negative pressure
- ◆ Output signal: 4 ~ 20mA, RS485 (standard Modbus-RTU protocol), (0 ~ 10VDC, 0 ~ 5VDC, 1 ~ 5VDC, 0.5 ~ 2.5VDC custom)
- ◆ Power supply voltage: 12 ~ 36VDC conventional
15 ~ 36VDC normal (with display or output 0 ~ 10VDC)
3 ~ 5VDC customization (output is 0.5 ~ 2.5VDC)
- ◆ Precision grade: 0.1%FS (range ≥ 100kPa custom)
0.25%FS (range ≥ 100kPa default)
0.5%FS (10kPa ≤ range < 100kPa default)
1%FS (range < 10kPa default)
Table head display precision of 0.5, digital tube (LED)

dimension figure



display

- ◆ Working conditions: medium temperature 40 ~ 85°C
Ambient temperature 40 ~ 85°C
Ambient humidity 0% ~ 95%RH (no condensation no condensation)
Temperature compensation 10 ~ 70°C
- ◆ Seismic performance: 10g(20. 2000Hz)
- ◆ Overload capacity: 200% full range or 120MPa (take the minimum value) Response frequency: analog signal output ≤ 500Hz, digital signal output ≤ 5Hz Stability: ± 0.1% FS/ year
- ◆ Temperature drift: ± 0.01%FS/°C (temperature compensation range)
- ◆ Overall weight: no indication ≈ 190g with indication ≈ 270g
- ◆ Protection grade: IP65 (no display) IP54 (with display)
- ◆ Note: The protection level above refers to the maximum power achieved after the electrical connection is complete: Current type ≤ 0.02us (W) Digital type ≤ 0.015us (W)
- ◆ Note: US = supply voltage
- ◆ load characteristics: current type load ≤ {(US-7.5) ÷ 0.02 (US = supply voltage)}

Range selection schedule							
code	Range	code	Range	code	Range	code	Range
01	★0 ~ 1kPa	02	★0 ~ 2kPa	03	★0 ~ 5kPa	04	▲0 ~ 10kPa
05	▲0 ~ 20kPa	06	▲0 ~ 50kPa	07	0 ~ 100kPa	08	0 ~ 200kPa
09	0 ~ 0.4MPa	10	0 ~ 0.5MPa	11	0 ~ 0.6MPa	12	0 ~ 1MPa
13	0 ~ 1.6MPa	14	0 ~ 2.5MPa	15	0 ~ 4MPa	16	0 ~ 6MPa
17	0 ~ 10MPa	18	0 ~ 16MPa	19	0 ~ 20MPa	20	0 ~ 25MPa
21	0 ~ 30MPa	22	0 ~ 35MPa	23	0 ~ 40MPa	24	0 ~ 60MPa
25	0 ~ 70MPa	26	0 ~ 80MPa	27	0 ~ 100MPa	31	100kPa (A)
32	200kPa (A)	33	0.5MPa (A)	34	1MPa (A)	35	2MPa (A)
36	★ ± 1kPa	37	★ ± 2kPa	38	▲ ± 5kPa	39	▲ ± 10kPa
40	▲ ± 20kPa	41	▲ ± 30kPa	42	▲ ± 40kPa	43	± 50kPa
44	± 100kPa	45	-100 ~ 200kPa	46	-0.1 ~ 0.5MPa	47	-0.1 ~ 1MPa
48	★0 ~ -1kPa	49	★0 ~ -2kPa	50	★0 ~ -3kPa	51	★0 ~ -5kPa
52	▲0 ~ -10kPa	53	▲0 ~ -20kPa	54	▲0 ~ -30kPa	55	▲0 ~ -50kPa
56	0 ~ -100kPa	57	★-1kPa ~ 0	58	★-2kPa ~ 0	59	★-3kPa ~ 0
60	★-5kPa ~ 0	61	▲-10kPa ~ 0	62	▲-20kPa ~ 0	63	▲-30kPa ~ 0
64	▲-40kPa ~ 0	65	▲-50kPa ~ 0	66	-100kPa ~ 0	67	定制

Note 1:A stands for absolute pressure; No label represents gauge pressure;

Note 2: The measuring range below 5kPa can only measure dry gas;

Note 3:★ Accuracy level 1; ▲ Precision level 0.5; No mark precision grade default 0.25, can be customized 0.1.

Note 4: The measuring range is ≥60Mpa, only M20*1.5 thread can be selected

Selection table

PN50E-	B...	C	M2	H	4	B	B	specification
PN50E-								PN50E series durable pressure
	A...							Absolute pressure: refer to the range
	B...							Gauge pressure: refer to the range
		A						0.1%FS customization (range ≥
		B						0.25%FS conventional (range ≥ 100kPa)
		C						0.5%FS routine (10kPa ≤ range < 100kPa)
		D						1%FS conventional (range < 10kPa)
			M4					M14*1.5 female thread (commonly
			M2					M20*1.5 female thread (standard)
			G4					G1/4 male thread (commonly used)
			G2					G1/2 male thread (commonly used)
			P					Flat film type > G1/2 female thread
								Custom thread
					4			4-20 ma output
					1			1-5 v output
					0			0 to 10 v output
						A		Direct line
						B		Hersman joint
							B	No damper, no heat sink
							Z	Damper (optional)
							S	Heat sink (optional)

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