

Features

- SS316L diaphragm structure
- High accuracy, all stainless steel structure
- Small size and light weight
- Strong anti-interference, good long-term stability
- Diversified formal structures, easy installation and use
- Wide pressure range, can measure the absolute pressure, gauge pressure and sealed gauge pressure
- Anti-vibration, shock resistance
- Zero, full span adjustable

Applications and industries

- Process control
- Aerospace
- Automobile and medical equipment
- Pipeline system

Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



Product overview

Kanagawa KPT-20 pressure transmitter adopts diffused silicon pressure sensor as pressure sensing element. Through internal ASIC, the millivolt signal of sensor is transmitted into standard current signal. KPT-20 can be directly connected with computer interface card, control instruments, intelligent meters or PLC etc. conveniently. Long-distance transmission can use current output. KPT-20 features with small size, light weight, all stainless steel sealing structure and ability to work in corrosive environments. The product is easy to install and has extremely high vibration and shock resistance. KPT-20 is widely used in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields.

Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Performance parameters

Pressure range	-100kPa...0~35kPa...100MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Accuracy	0.5%FS, Opt. 0.2 % FS, 0,1%
Hysteresis	0.1%FS
Repeatability	0.1%FS
Temperature drift	35kPa: $\pm 2\%FS(0^{\circ}C \sim 60^{\circ}C)$ Other ranges: $\pm 1.5\%FS(-20^{\circ}C \sim 85^{\circ}C)$

Performance parameters (cont.)

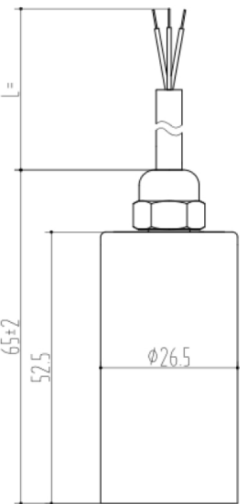
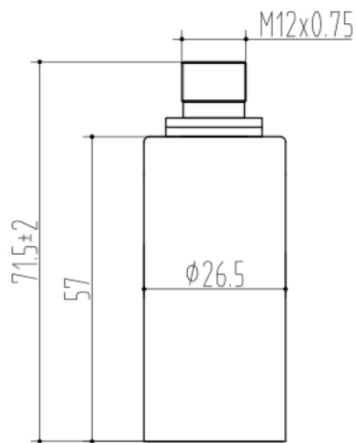
Response time	≤1ms (Up to 90%FS)
Overpressure	Refer to Table for Pressure Range Selection
Service life	≥1×10 ⁶ pressure cycles
Ambient temperature	-20℃~85℃
Medium temp.	-30℃~105℃
Storage temp.	-40℃~125℃
EMC	Immunity: IEC 61000-6-2, Radiation: IEC 61000-6-3
Insulation resistance	≥100MΩ/500VDC(200MΩ/250VDC)
Vibration resistance	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6 Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64
Shock resistance	Shock: 200g/1ms; IEC 60068-2-27 Free falling body: 1m; IEC 60068-2-32
Protection grade	IP65
Surge	IEC 61000-4-5 3 level
Voltage resistance	Current output: 500V/AC 1min Voltage output: 250V/AC 1min
Static electricity	IEC 61000-4-2 4 level
Hexagon	HEX27
Ex-proof grade	Intrinsically safe explosion-proof Exia II CT6 (only for 4~20mA)
Net weight	150~180g

Output and power supply

Code	B1	B3	B2	B7	B12	B6
Output	4~20mA	0~5V	1~5V	0~10V	1~10V	0.5~4.5V R/M
Power supply	12~30VDC	12~30VDC	12~30VDC	12~30VDC	12~30VDC	5VDC

Electrical connection & wiring mode

Connector code	J5: DIN43650	J15: DIN43650 with cable
Dimension In mm		
Protection grade	IP65	IP65
Wiring method (2 wire current)	Pin 1: Power supply+ (Red wire) Pin 2: Current output (Green wire)	Red wire: Power supply+ Green wire: Current output

Wiring method (3 wire voltage)	Pin 1: Power supply+ (Red wire) Pin 2: Common-ground (Green wire) Pin 3: Voltage output (Yellow wire)	Red wire: Power supply+ Green wire: Common-ground Yellow wire: Voltage output
Connector code	J3: Cable outlet	J4: M12
Dimension In mm		
Protection grade	IP65	IP65
Wiring method (2 wire current)	Red wire: Power supply+ Green wire: Current output	Pin 1: Power supply+(Red wire) Pin 2: Current output (Green wire)
Wiring method (3 wire voltage)	Red wire: Power supply+ Green wire: Common-ground Yellow wire: Voltage output	Pin 1: Power supply+ (Red wire) Pin 2: Common-ground (Green wire) Pin 3: Voltage output (Yellow wire)

How to order

