

PC20 Temperature and Pressure Integrated Sensor

Features

- With constant current and constant voltage excitation options
- Imported highly reliable pressure die
- Wide temperature compensation
- Normalized output available
- Compensation board filled with glue for protection against moisture
- Φ19mm standard OEM
- All 316L material
- High performance, all solid, high reliability
- 18 months warranty period

Applications

- Process control systems
- Pressure calibration instruments
- Refrigeration equipment and HVAC control
- Hydraulic systems and valves
- Level measurement
- Biomedical instruments
- Ships and navigation
- Aircraft and avionics systems
- Weaponry

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.



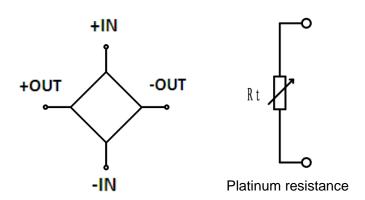
Product overview

PC20 temperature and pressure integrated sensor is based on PC10 and mounted with built-in platinum resistance to accomplish simultaneous measurement of pressure and temperature. The temperature measurement can meet the need for high-precision temperature compensation of the product.

Equivalent circuit

(1) Pressure output

(2) Temperature output



Notes:

1

- 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.

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Electrical performance parameters					
Pressure range	-100kPa∼0∼10kPa100MPa				
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure				
Excitation	1.5mA recommended for constant current				
LXCItation	10V recommended for constant voltage				
Input impedance	Constant current: $2k\Omega{\sim}5k\Omega$				
input impedance	Constant voltage: $3k\Omega\sim18k\Omega$				
Electrical connection	Gold-plated KOVAR pin or silicon soft wire				
Componentian town	Constant current: 0°C∼60°C (≤70kPa), -10°C∼70°C (other ranges);				
Compensation temp.	Constant voltage: -20°C ~85°C				
Operating temp.	-40℃~120℃				
Storage temp.	-40℃~120℃				
Insulation resistance	≥200MΩ/250VDC				
Response time	≤1ms (up to 90%FS)				
Measured medium	All the liquids and gases compatible with 316L.				
Mechanical vibration	20g (20∼5000Hz)				
Shock	100g (10ms)				
Service life	10×10 ⁶ (cycles)				
Structural performance p	parameters				
Diaphragm material	316L				
Housing material	316L				
Oil filling	Silicon oil				
Sealing ring	NBR or fluorine rubber				

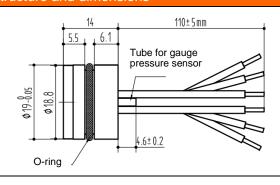
Basic parameters							
Item	Condition	Min	Nominal	Max	Unit	Note	
Nonlinearity		-0.3	±0.2	0.3	%FS	Note(1)	
Hysteresis		-0.05	±0.03	0.05	%FS		
Repeatability		-0.05	±0.03	0.05	%FS		
Zero output		-2	±1	2	mV		
	1.5mA, 10kPa	30					
Full scale span	1.5mA, other ranges	60	90	150	mV		
output	10V, 10kPa	60					
	10V, other ranges	98	100	102			
Zero temp.	10kPa	-2	±1.5	2	%FS	Note(2)	
coefficient	other ranges	-1.5	±0.75	1.5	<i>7</i> ₀F3		
Span temp.		1 E	. O. 7E	4.5	%FS	Note(2)	
coefficient		-1.5	±0.75	1.5	%F3	NOte(2)	
Thermal hysteresis		-0.075	±0.05	0.075	%FS	Note(3)	
Long term stability		-0.3	±0.2	0.3	%FS/Year		

Note:

- (1) Calculate according to BFSL least square method.
- (2) In the compensation temperature range, refer to 30 $^{\circ}$ C for 0 $^{\circ}$ C ~60 $^{\circ}$ C and -10 $^{\circ}$ C ~70 $^{\circ}$ C, and 32.5 $^{\circ}$ C, for -20 $^{\circ}$ C ~85 $^{\circ}$ C.
- (3) After passing high and low temperature, return to the reference temperature.



Structure and dimensions

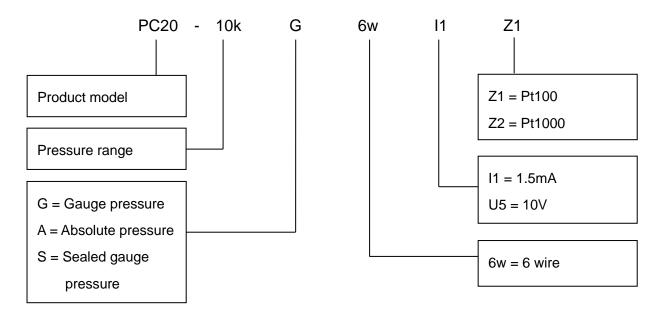


Wire color	Qty	Definition
Red	1	Excitation+(IN+)
Blue	1	Excitation-(IN-)
Yellow	1	Output+(OUT+)
White	1	Output-(OUT-)
Green	2	Temp. output(non polar)

Code Pressure reference Pressure range Overpressure bressure Burst pressure sure pressure O-ring pressure 10k G 0~10kPa 300%FS 600%FS NBR 20k G 0~20kPa 300%FS 600%FS NBR 35k G, A 0~35kPa 300%FS 600%FS NBR 70k G 0~70kPa 300%FS 600%FS NBR 100k G, A 0~100kPa 200%FS 500%FS NBR 160k G, A 0~160kPa 200%FS 500%FS NBR 250k G, A 0~250kPa 200%FS 500%FS NBR 400k G, A 0~400kPa 200%FS 500%FS NBR 400k G, A 0~400kPa 200%FS 500%FS NBR 400k G, A 0~400kPa 200%FS 500%FS NBR 1M G, A 0~40kPa 200%FS 500%FS NBR 1M G, A 0~40kPa 200%FS <th colspan="7">Pressure range selection</th>	Pressure range selection						
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N7k Omitted -100~600kPa 1.2MPa 3MPa NBR N8M Omitted -0.1~1MPa 2MPa 5MPa NBR N9M Omitted -0.1~1.6MPa 3MPa 9MPa NBR	N5k	Omitted	-100∼250kPa	750kPa	1.25MPa	NBR	
N8M Omitted -0.1~1MPa 2MPa 5MPa NBR N9M Omitted -0.1~1.6MPa 3MPa 9MPa NBR	N6k	Omitted	-100∼400kPa	800kPa	2MPa	NBR	
N9M Omitted -0.1~1.6MPa 3MPa 9MPa NBR	N7k	Omitted	-100∼600kPa	1.2MPa	3MPa	NBR	
	N8M	Omitted	-0.1∼1MPa	2MPa	5MPa	NBR	
NUMBER 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N9M	Omitted	-0.1∼1.6MPa	3МРа	9MPa	NBR	
N10M Omitted -0.1~2.5MPa 5MPa 12.5MPa NBR	N10M	Omitted	-0.1∼2.5MPa	5MPa	12.5MPa	NBR	

Note: G: Gauge pressure, A: Absolute pressure, S: Sealed gauge pressure

How to order



Example: PC20-10kG4wl1Z1

Refer to PC20 pressure sensor, with pressure range 10kPa, gauge pressure, 6 wire, 1.5mA excitation, temperature measuring element Pt100.

Ordering tips:

- 1 Pressure range can be selected higher or lower than actual conditions but should be within ±30%FS.
- 2 Pressure reference consists of gauge pressure, absolute pressure and sealed gauge pressure.
- (1) Gauge pressure is based on the current atmospheric pressure. Generally, it refers to the measurement of pressure which is greater than the current atmospheric pressure. Negative pressure is a special case of gauge pressure. It refers that there is such working condition that the pressure of work site is lower than the current atmospheric pressure.
- (2) Absolute pressure is based on vacuum.
- (3) As for sealed gauge pressure, PC10 uses absolute pressure die for gauge pressure product based on the atmospheric pressure of production site. For pressure range above 6MPa, gauge pressure cannot be selected, but only sealed gauge pressure.
- 3 Confirm the maximum overload of the applied system, which should be less than the overload protection limit of the sensor, otherwise it will affect the product life or even damage the product.
- 4 The commonly used compensation of the product is 1.5mA constant current compensation. Suggest to select the option with priority.
- 5 The material and process for manufacturing negative pressure sensors are different from those of positive pressure sensors. So gauge pressure sensors cannot be used as substitute of negative pressure sensors.
- 6 For special requirements on performance parameters and functions of the product, please contact us.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.



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