

Winsen WPCCK07 Pressure Sensor Series



Winsen WPCCK07 Pressure Sensor Series User Manual

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Winsen

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Statement

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Thanks for purchasing our products. To have customers use it better and reduce the faults caused by misuse, please read the manual carefully and operate it correctly by the instructions. If users disobey the terms or remove, disassemble, or change the components inside of the sensor, we shall not be responsible for the loss. The specifics such as colour, appearance, sizes &etc., please in kind prevail. We are devoting ourselves to product development and technical innovation, so we reserve the right to improve the products without notice. Please confirm it is the valid version before using this manual. At the same time, users' comments on the optimized way are welcome.

Please keep the manual properly, in case you need help during usage in the future.

Product Description

WPCK07 series diffused silicon pressure transmitter is integrated with a high-precision diffused silicon pressure core, the internal special integrated circuit converts the sensor millivolt signal into a standard current signal, which can be directly connected with the computer interface card, control instrument, intelligent instrument or PLC, and the current output mode can be used for remote transmission. WPCK07 is a small size, lightweight, all-stainless steel-sealed structure transmitter, that can be used in corrosive environments. The product has extremely high vibration and impact resistance and is easy to install. It's widely used in process control, automobile, medical equipment, HVAC and other fields.



Main features

- Stainless steel structure, multi-thread structure
- Wide temperature compensation -10~+70°C
- Multi output methods
- Excellent anti-interference ability
- High reliability
- High Accuracy
- Low consumption

Application

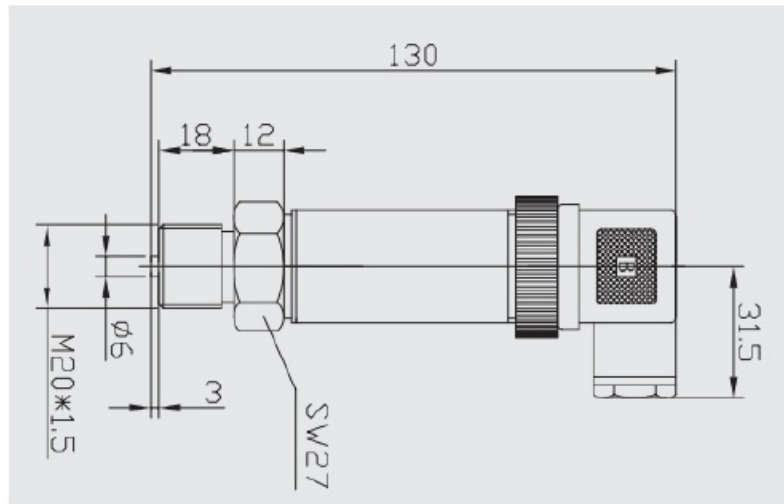
- Process control system

- Pressure calibration instrument
- Hydraulic system
- Biomedical instruments
- Hydraulic system and valve
- Refrigeration equipment and HAVC system
- Ships and navigation
- Pipeline pressure monitoring

Basic Parameter Index

Basic Parameter Index		
Pressure Range	-100kPa 0 10kPa...100MPa	
Pressure Reference	Gauge Pressure/Absolute Pressure/Sealed Gauge Pressure	
Output	4-20mA(Default) 0.5-4.5V,0-5V,1-5V,0-10V,1-10V	
Accuracy	±0.5%FS	
Hysteresis	0.1%FS	
Repeatability	0.1%FS	
Temperature Drift	35kPa ±2%FS(0°C 60°C Others ±1.5%FS(-20°C 85)	
Response time	≤1ms	Up to 90%FS
Overload pressure	Refer to the pressure range chart	
Working life	≥1×10 ⁶ Pressure cycle	
Environment Temperature	≥1×10 ⁶ Pressure cycle	
Environment Temperature	-30°C 105°C	
Storage Temperature	-40°C 125°C	
EMC	EMC	
Vibration Resistance	Impact 200g/1ms IEC 60068-2-27 Free fall 1m IEC 60068-2-32	
Protection level	IP65	
Static electricity	IEC 61000-4-5 3 Level	
Voltage Withstand	Current Output 500V/AC 1min Voltage Output 250V/AC 1min	
Media Compatible	Various media compatible with 316L stainless steel	
Size of Hexagon	SW27	
Ex-proof level	ExialICT6	
Thread	M20*1.5 Default	

Dimension



Electrical Connection


Output

- **Current:**
 - **PIN1:Power+(Red wire)** PIN
 - **PIN2:** Current Output(Green)
- **Voltage:**
 - **PIN1:** Power+(Red wire) PIN
 - **PIN2:** Common ground (Green) PIN
 - **PIN3:** Voltage output(Yellow)

Cautions

- Do not touch the diaphragm with any hard objects, it may break the diaphragm.
- Please carefully read the manual before installation, to avoid damage to the product caused by wrong installation.
- Misuse may cause danger and personal injury.
- When pulling out the core from the shell, do not pull the wire and pin.
- For customized product cycles, please consult the sales department.

Documents / Resources

	<p>Winsen WPCK07 Pressure Sensor Series [pdf] User Manual</p> <p>WPCK07 Pressure Sensor Series, WPCK07, Pressure Sensor Series, Sensor Series, Series</p>
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References

- [User Manual](#)

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