



WPCK61 General Type Isolation-Film Pressure Transmitter

User's Manual
(Version: 3.0)

Zhengzhou Winsen Electronics Technology CO., LTD

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

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WPCK61 General Type Isolation-Film Pressure Transmitter

Product

WPCK61 Isolation-Film Pressure Transmitter is a wide-used pressure measurement products. Adopting high-precision pressure-sensitive film and signal processing unit, and special design of anti-over-voltage, impact resistance, anti-ice blocking, and anti-electromagnetic interference, it can be long-term reliable used in a variety of harsh Workplace or environmental. The products also meet explosion-proof and marine products related to the design requirements.

Main features:

- Anti-pressure impact, anti-water hammer effect
- Anti-ice blocking effect
- PCB buffer, vibration resistance
- Anti-electromagnetic interference
- Anti-power supply voltage fluctuation
- Anti-power supply fault connection



Application:

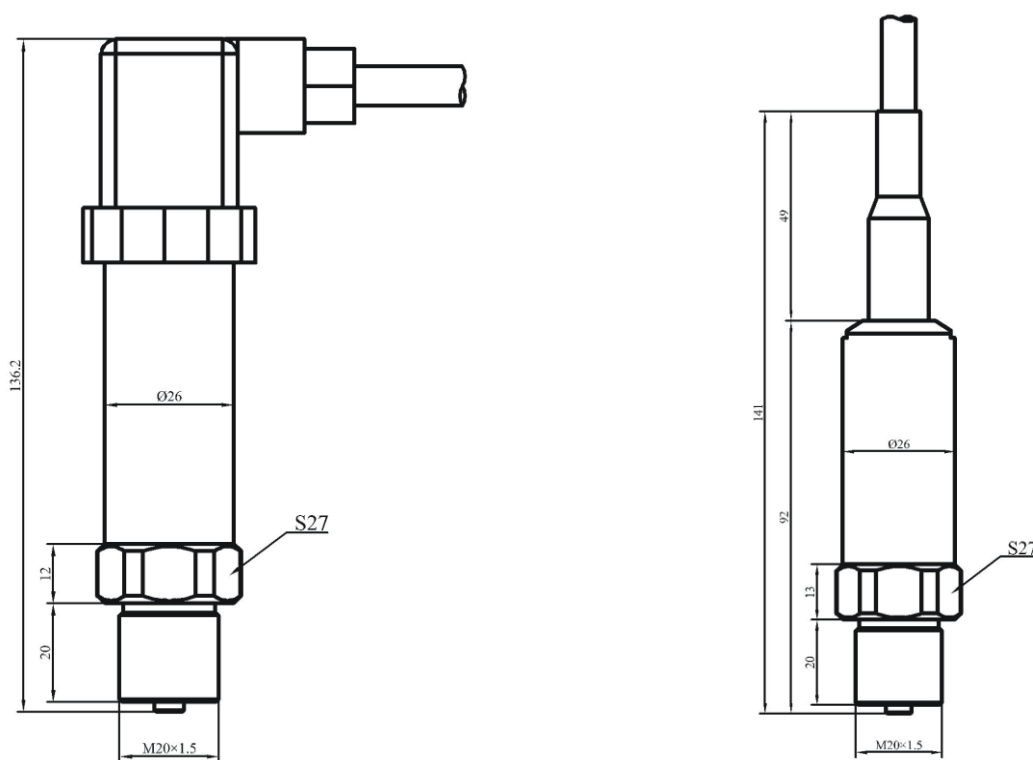
- Petrochemical
- Marine, mechanical hydraulic system
- Hydropower and window power
- Water conservancy and pump use
- Equipment support

Main technical parameters

Measuring Range	-0.1—0~0.01—250MPa	
Overload	2 times (below 70MPa)	
	1.5 times (over 100MPa)	
Pressure Type	S	A
Power Supply	8-30VDC	8-30VDC
Output Signal	4-20mADC	0/1-5/10VDC
Transition Method	Two Lines	Three Lines
Load Resistance	$\leq (U-8)/0.02\Omega$	$> 100K$
Protection Class	IP65(Connector Type) /IP68(Fully Sealed Cable Type)	
Shell	Stainless Steel 304	
Film	Stainless Steel 316L	
Seals	Fluoro-rubber	
Accuracy	$\pm 0.25\%FS(\text{typical})$	$\pm 0.5\%FS(\text{max})$
Medium Working Temperature	$-35^{\circ}\text{C} \sim +85^{\circ}\text{C}$	

Environment Temperature	-40℃~ +65℃	
Storage Temperature	-40℃~ +105℃	
Zero Point Temperature Ratio	$\pm 0.03\%FS/^{\circ}C$ ($\leq 100kPa$)	$\pm 0.02\%FS/^{\circ}C$ ($> 100kPa$)
Full Temperature Ratio	$\pm 0.03\%FS/^{\circ}C$ ($\leq 100kPa$)	$\pm 0.02\%FS/^{\circ}C$ ($> 100kPa$)
Long-term Stability	$\pm 0.1\%FS/year$ (typical)	$\pm 0.2\%FS/year$ (max)
Note: Accuracy includes non-linear, repeatability, pressure hysteresis indicators, and calibrate on 0.01%FS accuracy pressure measurement equipment, in accordance with the relevant national standards.		

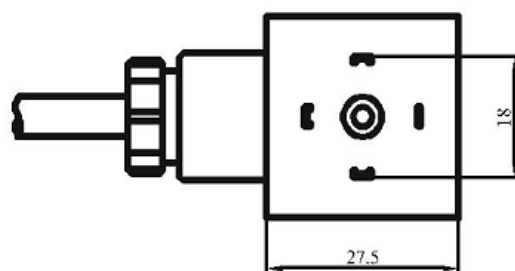
Structure



Electrical Connection

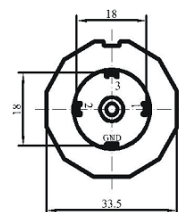
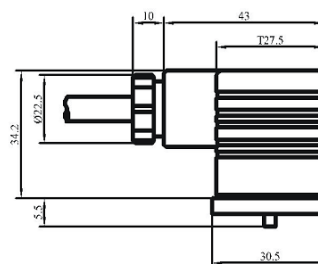
Connector Connection Pin definition

Pin	Two Line	Three Line
1	Power Supply Positive(+V)	Power Supply Positive(+V)
2	Power Supply Negative(0V/+OUT)	Common Terminal (GND)
3	Empty	Output Positive(+ OUT)

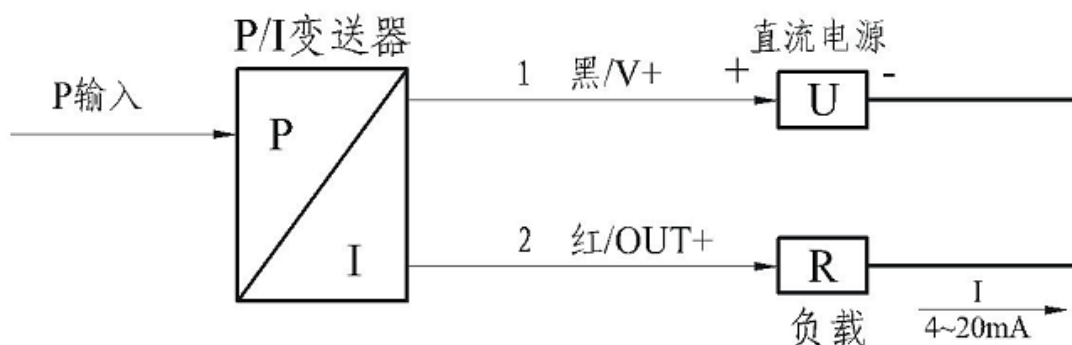


Cable Connection Wiring Definition

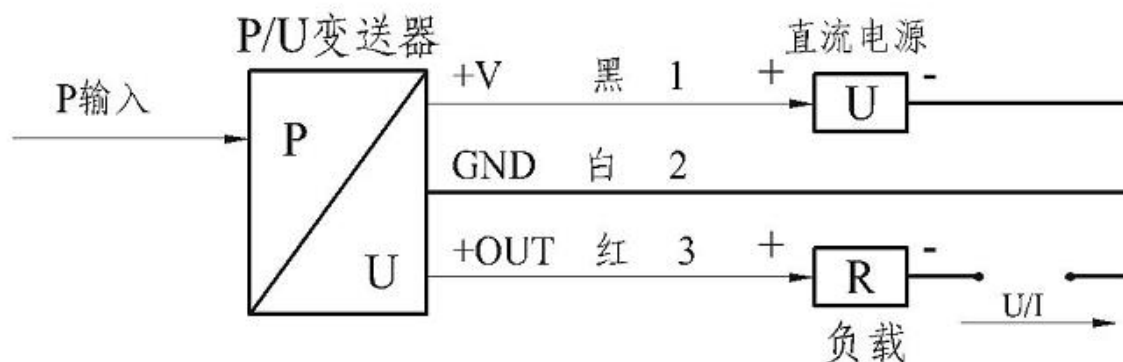
Wire Color	Two Line	Three Line
Black	Power Supply Positive(+V)	Power Supply Positive(+V)
White	Power Supply Negative(0V/+OUT)	Output Positive(+ OUT)
Red	Empty	Common Terminal (GND)



Two Line Type 4~20ma DC Output transmitter Electrical Connection



Three Line Type 0/1~5VDC Output transmitter Electrical Connection


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