



WPCH01

General Type Ceramic Pressure Transmitter

Manual Version 4.0

Zhengzhou Winsen Electronics Technology Co., Ltd

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Zhengzhou Winsen Electronics Technology CO., LTD.

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WPCH01 General Type Ceramic Pressure Transmitter

1.Profile

WPCH01 general type ceramic pressure transmitter has small size and light weight, it is convenient and easy to install. It adopts pressure sensor made by Winsen and it convert pressure into standard voltage signal output through a high reliable amplifying circuit and accurate temperature compensation circuit. The whole stainless delicate structure and plastic elements with high-strength enhance its anti-corrosion character, which make the product meet demands in different application occasions.

It has various output way and connector, and it also could be customized. It is widely used in water pump, smart water supplying, air compressor, cars, air conditioners, water dealing device, controlling gas and liquid pressure.



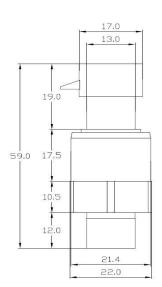
2.Parameters

Detection range	ction range 0.2 MPa 、0.5MPa、1 MPa、2 MPa 、5MPa			
Comprehensive accuracy				
Output signal	4-20mA、0/1-5/10V、0.5-4.5V	customizable		
Power supplying	+5VDC、+12VDC、+24VDC	customizable		
Structural connection	G1/4、G1/2、G1/8、1/4NPT、1/2NPT、M20*1.5、M14*1.5	customizable		
Electrical connection	onnection Three-pin plug, direct leading wire, Hersman's joint, aviation plug			
Compensation	0-45°C 、0-65°C (defult)、-10-85°C、-20-85°C			
Working temperature	-20-125°C			
Safe overload	150%			
Ultimate overload	200%			
Long-term stability	0.2%FS/year			
Response time	Less than 1ms			
Shell material	ell material 304 stainless steel			
Protection grade	IP65			

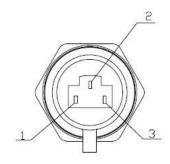
Tel: 86-371-67169097/67169670 Fax: 86-371-60932988 Email: sales@winsensor.com



3. Structure sizes



4. Electric connection and definition of wires



Pin	Cable	Definition (three-wire)	Definition (two-wire)	
1	red	Power: V+	Power: V+	
2	yellow	Output: OUT+		
3	blue or green	Common port: GND	Output: OUT	

5.Guide to select model

Example: W—P—C—H—M1—V1—S2—L1—D1—P3

W		Winsen company							
Р		Pressure sensors products							
С		Pressure transmitter products							
Н	Sensor type	H: ceramic	H: ceramic type K: diff		sed-silicon type	Q: others			
M1	Detection range	M1 stands for 1MPa; M0.2 stands for 0.2MPa; M60 stands for 60MPa							
V1	Supply voltage	V1: 5VDC	V2: 12VDC		V3: 24VDC	V4: others			
S2	Output signal	\$1: 4-20	\$2: 0.5-4.5V		S3 : 0-5V	S4: 1-5V	S5: others		
L1	Screw Connection	L1 : G1/2	L2 : G1/4		L3: M20*1.5	L4: M14*1.5	L5: others		
D1	Electric connection	D1:Three-pin plug, D2: Hersman's joint, D3: direct leading wire, D4: aviation							
		plug D5: others							
Р3	Overall accuracy	P1: 0.2%	P2 : 0.5	%	P3 : 1%	P4: 2.0%	P5: 5.0%		

6. Cautions

- 1, Before selecting suitable model, please note the compatibility between the medium and the contacting part.
- 2, If selecting others, please indicate the specific requirements.
- 3, if have special requirements on parameters or functions, welcome to communicate with us further.
- 4, Please be sure to pay attention to the definition of cable wiring, the production will fail with wrong connection ways, this should be assumed by users.