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## HR3210 Micro-power Pressure Transmitter

### Overview

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HR3210 series lower power pressure transmitter is produced especially to measure liquid pressure in the field without power supply. It is stable, reliable, high precision and easy to assembly and disassemble.

It uses high-performance pressure sensor, 1Cr18Ni9Ti stainless steel full-welded construction, intrinsic safety type circuit design.

The biggest advantage of the transmitter is low power dissipation, the operating current is lower than 900uA, so it is easy for battery supply in open field.

Quick response, the single-chip can be used to make the intermittent power supply pressure acquisition system. It can reach the balance within 400uS when power on, obtain accurate data, and then turn off the power. It will turn on when collecting data.



### Features

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- Long time reliable operating;
- Low power dissipation, high accuracy;
- stainless steel 316L protection diaphragm, anti-corrosion

### Specification

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Range	0~1, 1.6,2,2.5, ...100Kpa; MPa
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Over-load	1.5tims F.S
accuracy	±0.25%FS, ±0.5%FS, ±1%FS (Non linearity, repeatability, hysteresis)
Operating Temp.	-15°C~+60°C
Compatible medium	Compatible with 1Cr18Ni9Ti and fluoro rubber
Operating current	< 900uA
Output Signal	0.25~2.25Vdc; 0.25-2.25Vdc; 0.5-4.5Vdc
Power Supply	3~5Vdc;
Insulation	> 100MΩ@500V
Electrical connections	Direct cable, housing protection IP65
Pressure interface	M20×1.5M; or customized
Response time	<0.4ms (0...99%)
Vibration	20g 11ms
Shock	10g/5...2000HzX/Y/Z 轴
EMC	Electromagnetic radiation: EN50081-1/-2; Electromagnetic sensitivity: EN50082-2

## Electrical connections

Number	Definition	Color
1	VCC	Red
2	GND	Yellow
3	VPout	Blue

## Order Guide

HR3210	Micro-power Pressure Transmitter						
	Range						
	[0~X] KPa/MPa						
		Code	Output Signal				
		I1	0.25~2.25Vdc;				
		I2	0.5~4.5Vdc				
			Code	Construction Material			
				Housing	Diaphragm	Process connection	
			S1	SS	316L	SS	
			S2	316L	316L	316L	
				others			
			C1	M20×1.5 male, face type seal			
			C2	M20×1.5 male, waterline seal			
			C3	Flush diaphragm, G1/2 male			
B1			Hirschmann plug connection				
B2			Cable connection, default cable length: 1.5m				
G	Gauge pressure (atmospheric reference))						
S	Gauge pressure (sealed reference)						
HR3210	[0~10] MPa	I1	S2	C2G	Full model example		