

MRP21

Corrosion Resistant Ceramic Diaphragm Pressure Transducer

MeasureX

Features

- Well priced for OEM applications
- High Measuring Accuracy
- Pressure Measurement Range of -1 to 200bar
- Wide Range of Media Compatibility
- Low Static and Thermal Errors



Description

MRP21 series with ceramic diaphragm is a high quality printed thick film ceramic pressure transducer. This structure minimizes the influence of rapid or gradual temperature changes and offers great flexibility and reliability for a wide range of applications with highly competitive pricing.

MRP21 is available in pressure ranges from -1 to 200bar with an output of mV/V. It is suitable for pressure measurement of gases & liquids compatible with ceramic. While the standard Precision is 0.5% FS, you can optionally get a precision of 0.25% FS. It finds wide range of applications in many industries.

The robust construction of MRP21 with its high performance makes it ideal for demanding long term applications.

Applications

- Autoclave and other steam sterilizers
- Agricultural chemical spray equipment
- Aggressive fluid tank farms
- Hydraulics
- Sub-sea survey equipment
- Purging lines
- Industrial washing equipment
- Laboratory analysers

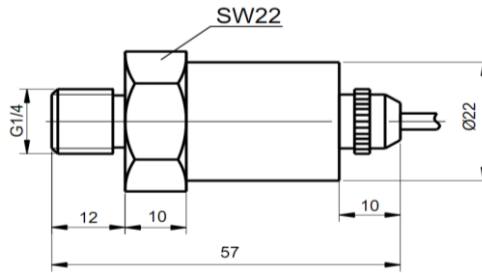
Technical Specifications

- **Pressure media:** all fluids compatible with ceramic and SS321
- **Ranges:** -1 to 200bar
- **Pressure references:** Sealed Gauge
- **Overpressure rating:** 150% FS
- **Supply voltage:** 5 to 10VDC
- **Output signals:** 2mV/V, 3mV/V
- **Precision:** 0.5% FS (standard), 0.25% FS, combined LRH error
- **Zero offset:** < 3% FS
- **Long term stability:** <0.2%FS/year
- **Response time:** <1ms
- **Compensated temp. range:** 0 to 70°C
- **Operating temp. range:** - 10 to +90°C
- **Temp. coefficient of zero:** 0.03% FS /°C
- **Temp. coefficient of span:** 0.03% FS /°C
- **Input / output resistance:** 10kΩ
- **Insulation resistance:** 100MΩ@50VDC
- **Process connection:** G1/4 or others
- **Electrical connection:** DIN43650 and others
- **Case materials:** SS321
- **Diaphragm materials:** Ceramic (Al₂O₃)
- **Sealing:** fluorine rubber sealing ring

MRP21

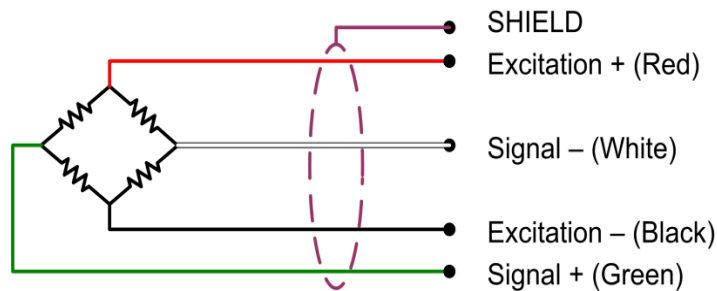
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Dimensions



MRP21 with G1/4" port and DIN connector

Connection Diagrams



Ordering Code

MRP21						
	Range	1, 2, 5, 10, 20, 50, 100, 200 bar or other ranges in bar or psi				
		Pressure Reference				
		SG (sealed gauge)				
		Precision ±				
		0.5% FS		0.25% FS		
		Output Signal				
		2mV/V		3mV/V		
		Pressure Port				
		G1/4(1/4" BSPP male)		G1/2(1/2" BSPP male)		
		R1/4(1/4" BSPT male)		NPT1/4(1/4" NPT male)		
		and others				
		Electrical Connection				
		DIN 43650 connector				
		3m Cable		3m IP68 Cable		
		and others				
MRP21	10bar	SG	0.5%	2mV/V	G1/4	DIN

Note: All specifications are subject to change without prior notice

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