

# MRA25

## OEM Strain Gauge Flush Diaphragm Pressure Sensor

**MeasureX**

### Features

- High Measuring Accuracy
- Pressure Measurement Range of 0-20bar to 600bar
- Compact And Rugged Model
- Wide Range of Media Compatibility
- Low Static and Thermal Errors



### Description

MRA25 series with 17-4PH diaphragm is a rugged strain gauge based pressure sensor suitable for harsh environments. The strain gauge design of this pressure sensor offers great flexibility for OEM applications with highly competitive pricing.

MRA25 comes in a range from 20bar to 600bar with an output of mV/V. It is suitable for pressure measurement of gases & liquids compatible with stainless steel 17-4PH. The standard Precision is 0.5% FS. It finds applications in food and pharmaceutical industries among many others. The robust construction of MRA25 with its high performance makes it ideal for demanding long term applications.

### Applications

- Food industry
- Beverage machinery
- Pharmaceutical applications
- Agricultural equipment
- Industrial process control
- Data logging

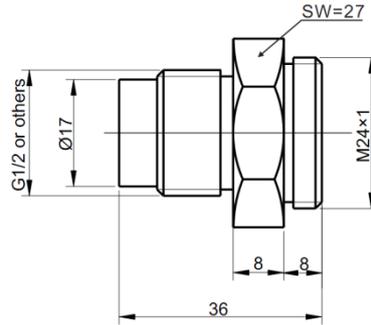
### Technical Specifications

- **Pressure media:** gas or liquid compatible with stainless steel 17-4PH
- **Ranges:** 20...600bar
- **Overpressure rating:** 150% FS
- **Excitation:** 6VDC ~ 12VDC
- **Output signals:** 1mV/V, 1.5mV/V, 2mV/V
- **Precision:** 0.5% FS combined LRH errors
- **Zero unbalance:**  $<\pm 2\%$  FS
- **Compensated temp range:** -10 ~ +60°C
- **Operating temp range:** -20 ~ +70°C
- **Long term stability:**  $<0.2\%$  FS/year
- **Temp coefficient of zero:** 0.02% FS /°C
- **Temp coefficient of span:** 0.02% FS /°C
- **Input resistance:** 380±5Ω, 1000±5Ω
- **Output resistance:** 350±5Ω, 1000±5Ω
- **Insulation resistance:** 100MΩ @ 50VDC
- **Electrical connection:** 4-wire
- **Case material:** SS321
- **Diaphragm material:** 17-4PH
- **Process connection:** G1/2 or others
- **Sealing:** Welded parts

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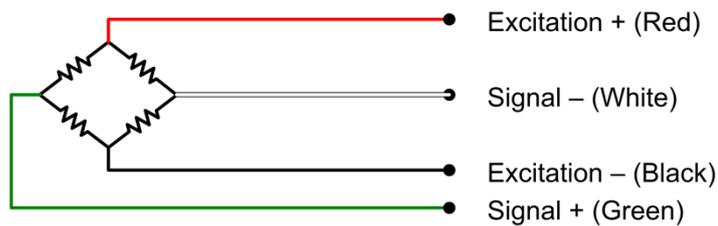
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### Dimensions



MRA25 with G1/2" process connector

### Connection Diagram



### Ordering Code

<b>MRA25</b>						
	<b>Range</b>	20, 50, 100, 200, 400, 500, 600 bar or other ranges in bar or psi				
		<b>Pressure Reference</b>				
		SG (sealed gauge)				
		<b>Precision ±</b>				
		0.5% FS				
		<b>Output Signal</b>				
		1 mV/V	1.5 mV/V		2 mV/V	
		<b>Pressure Port</b>				
		R1/2(1/2" BSPT male)		G1/2(1/2" BSPP male)		
		M20x1.5		or others		
<b>MRA25</b>	<b>100 bar</b>	<b>SG</b>	<b>0.5%</b>	<b>2 mV/V</b>	<b>G1/2</b>	

**Note:** All specifications are subject to change without prior notice

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