

MRD26

Piezo-Resistive Silicon Differential Pressure Transmitter

MeasureX

Features

- Differential Pressure Measurement Range of 1 to 600kPa
- High Measuring Accuracy
- Compact and Rugged Model
- Wide Range of Media Compatibility
- Low Static and Thermal Errors



Description

MRD26 series is a rugged silicon Piezo-resistive technology based differential pressure transmitter suitable for pipe lines and process control systems. This compact differential pressure transmitter offers great flexibility and reliability for a wide range of applications with highly competitive pricing.

MRD26 is available in pressure ranges from 0.01 to 6bar with an output of mA, V and frequency output (option). It is suitable for pressure measurement of non-conductive, non-corrosive and non-viscous liquids and gases. While the standard Precision is 0.5% FS, you can optionally get a precision of 0.25% FS. It finds applications in hydraulic and pneumatic process control systems among many others.

The robust construction of MRD26 with its high performance makes it ideal for demanding long term applications.

Applications

- Process industries
- Pump controls
- Pneumatic systems
- Manufacturing process controls
- Power plants
- Manufacturing automation
- Air supply systems in production lines
- Mining industry

Technical Specifications

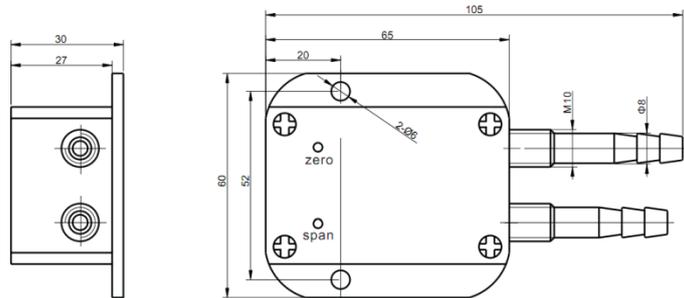
- **Pressure media:** Non-corrosive and non-conductive gas or liquid
- **Ranges:** 1...600kPa (0.01 ... 6bar)
- **System Pressure:** Max. 500 % FS
- **Overpressure rating:** 300% FS (for both positive and negative pressure sides).
- **Power Supply:** 12 -36VDC
- **Output signals:** 4-20mA, 0-5V, 0-10V, 1-5V, 0/2.5V (with 3~20VDC supply)
- **Precision:** 0.5% FS (standard), 0.25% FS; combined LRH errors
- **Zero offset:** $\leq 1.5\%$ FS
- **Long Term Stability:** $< 0.2\%$ FS/year
- **Protection:** IP65 (and optionally IP66)
- **Relative humidity:** 0 ... 80% RH
- **Compensated temp range:** 0~+60°C
- **Operating temp range:** -20~+85°C
- **Long term stability:** $<0.2\%$ FS/year
- **Temp. coefficient of zero:** 0.03% FS /°C
- **Temp. coefficient of span:** 0.03% FS /°C
- **Insulation resistance:** 500MΩ @ 50VDC
- **Electrical connection:** 3m length and 5mm diameter cable or others
- **Process connection:** M10 with $\phi 8$ gas nipple or others
- **Housing material:** Aluminium Alloy
- **Diaphragm material:** SS316L or Ceramic

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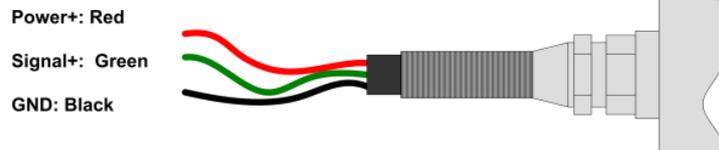
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Dimensions



MRD26 with Gas Nipple ports

Connection Diagrams



Voltage, 3-wire

Ordering Code

MRD26					
	Range	1, 2, 5, 10, 20, 50, 100, 200, 400, 600 kPa or other ranges in bar or psi			
		Precision ±			
		0.5% FS		0.25% FS	
		Output Signal			
		4/20mA (2 wire loop-powered)		0/5V volts	
		0/10V volts		1/5V volts	
		and others			
		Pressure Port (P1 and P2)			
		M10 with Ø8 gas nipple and others			
		Electrical Connection			
		3m Cable		3m IP66 Cable	
		and others			
MRD26	1kPa	0.5%	4/20mA	M10	3m

Note:

All specifications are subject to change without prior notice

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