

MRL22

Submersible Level Transducer

MeasureX

Features

- High Measuring Accuracy
- Level Measurement Range of 1m H₂O to 200m H₂O
- Rugged Model with IP68 Protection
- Wide Range of Media Compatibility
- Low Static and Thermal Errors
- Reverse Polarity And Transient Current Protected



Description

MRL22 series with SS316L diaphragm is a rugged silicon technology based pressure transducer suitable for harsh environments. This compact pressure transmitter offers great flexibility and reliability for a wide range of applications with highly competitive pricing. MRL22 is available in pressure ranges from 0m H₂O to 200m H₂O with an output of mV/V. It is suitable for level measurement of liquids compatible with SS316L. While the standard Precision is 0.5% FS, you can optionally get a precision of 0.25% FS and 0.1% FS.

The robust construction and IP68 protection level of MRL22 with its high performance makes it ideal for demanding long term applications.

Applications

- Process industries
- Hydrology research
- Data logging
- Level measurement of liquids in tanks
- Water level measurement in dams
- Irrigation and other agricultural applications
- Hydrostatic level control
- Waste water channels
- Petroleum and chemical industries

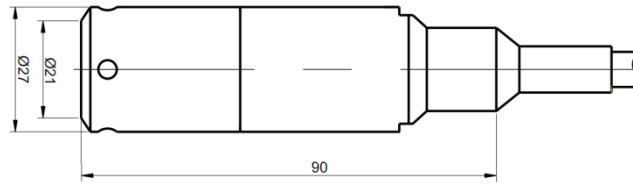
Technical Specifications

- **Pressure media:** all fluids compatible with stainless steel
- **Ranges:** 0- 1m H₂O to 200m H₂O
- **Pressure references:** Vented Gauge, Absolute
- **Overpressure rating:** 150% FS
- **Excitation:** 1.5mA
- **Output signals:** 80±20mV
- **Precision:** 0. 5% FS (standard), 0.25% FS, 0.1% FS, combine LRH error
- **Long term stability:** <0.5% FS/year
- **Protection Level:** IP68 with cable connection
- **Zero offset:** ≤ ±2mV
- **Compensated temp. range:** 0 to 60°C
- **Operating temp. range:** -10 to +80°C
- **Temp. coefficient of zero:** 0.02% FS /°C
- **Temp. coefficient of span:** 0.02% FS /°C
- **Input resistance:** 2- 6kΩ
- **Output resistance:** 2- 6kΩ
- **Insulation resistance:** 100MΩ @ 50VDC
- **Electrical connection:** 7.6mm PTFE shield cable connection with vent house
- **Case materials:** SS321
- **Diaphragm materials:** SS316L
- **Sealing:** fluorine-rubber sealing ring

MRL22

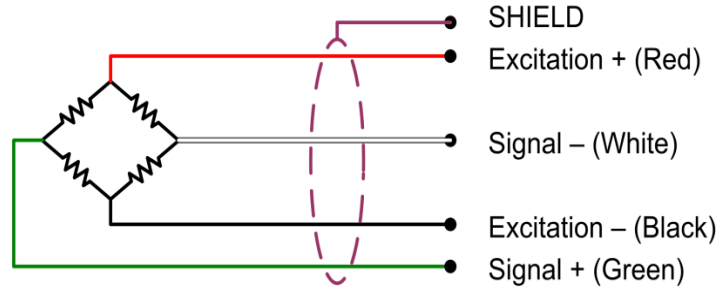
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Dimensions



MRL22 with IP68 protected cable connector

Connection Diagrams



Ordering Code

MRL22						
	Range	1, 2, 5,10, 20, 50, 100, 200m H ₂ O or other ranges in bar or psi				
		Pressure Reference				
		VG (vented gauge)		Abs (absolute)		
		Precision ±⁽¹⁾				
		0.5% FS		0.25% FS		0.1% FS
		Output Signal				
		80±20mV				
		Cable Length				
		5m		10m		
		20m		and others		
		Diaphragm Material				
		SS316L				
		Tantalum				
		others				
MRL22	20m H ₂ O	VG	0.5%	80mA	10m	SS316L

Notes:

(1): Sensors with range of up to 3m are available in accuracy of 0.25% and 0.5% FS.
All specifications are subject to change without prior notice