

MRS22

Strain Gauge Pressure Transmitter High Pressure

MeasureX

Features

- High Measuring Accuracy
- Pressure Measurement Range of 0-800 to 5000bar
- Compact and Rugged Model
- Wide Range of Media Compatibility
- Low Static and Thermal Errors
- Reverse polarity and transient current protected



Description

MRS22 series with 17-4PH diaphragm is a rugged strain gauge based pressure transducer suitable for harsh environments. The strain gauge design of this pressure transmitter offers great flexibility and reliability for a wide range of applications with very competitive pricing.

MRS22 comes in a range from 800bar to 5000bar Full Scale Sealed Gauge with an output of mA or V. It is suitable for pressure measurement of gases & liquids compatible with stainless steel 17-4PH. While the standard Precision is 0.5% FS, you can optionally get a precision of 0.25% FS and 0.1% FS. It finds applications in hydraulic and pneumatic systems among many others.

The robust construction of MRS22 with its high performance makes it ideal for demanding long term applications.

Applications

- General industrial applications
- Pneumatics
- Open cut mining
- Data logging
- Off road
- Hydrostatic systems
- Hydraulic systems
- Injection mould equipment
- Internal combustion engine pipeline
- Construction

Technical Specifications

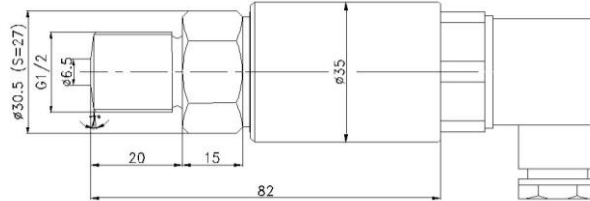
- **Pressure media:** all fluids compatible with stainless steel
- **Ranges:** 800 to 5000bar
- **Pressure references:** Sealed Gauge
- **Overpressure rating:** 150% FS
- **Supply voltage:** 12 to 36 VDC
- **Output signals:** 4/20mA, 0/5V, 0/10V, 1/5V
- **Precision:** 0.5% FS (standard), 0.25% FS, 0.1% FS, combine LRH error
- **Long term stability:** <0.2% FS/year
- **Protection Level:** IP65 with DIN connection; IP67 and IP68 (option) with cable connection
- **Compensated temp. range:** -10 to +60°C
- **Operating temp. range:** - 20 to +80°C
- **Temp. coefficient of zero:** 0.03% FS /°C
- **Temp. coefficient of span:** 0.03% FS /°C
- **Insulation resistance:** 100MΩ @ 50VDC
- **Process connection:** G1/4 or others
- **Electrical connection:** DIN43650 or others
- **Case materials:** SS321 or 17-4PH
- **Diaphragm materials:** 17-4PH
- **Sealing:** n-Butyronitrile or fluoro-rubber sealing ring (Standard); Welded or integrated parts (option)

MRS22

Strain Gauge Pressure Transmitter High Pressure

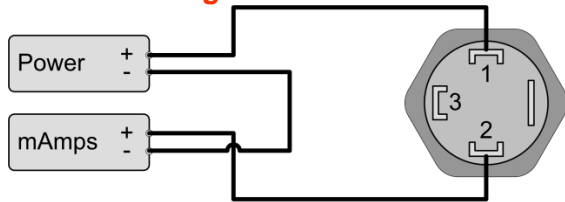
MeasureX

Dimensions

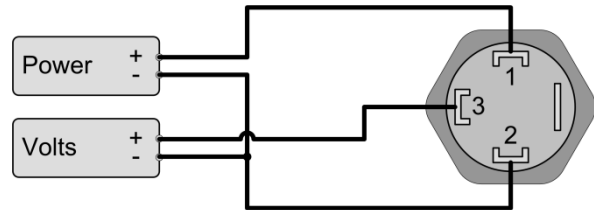


MRS22-4000bar with G1/2 port and DIN connector

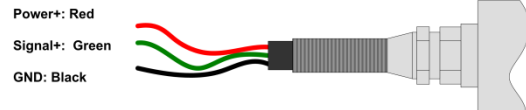
Connection Diagrams



Power+: 1 Signal+: 2



Power+: 1 Signal+: 3 GND: 2



4/20mA, 2 wire loop powered

Voltage, 3-wire

Ordering Code

MRS22							
Range	800, 1000, 1500, 2000, 3000, 4000, 5000 bar or other ranges in bar or psi						
	Pressure Reference						
	SG (sealed gauge)						
	Precision ±						
	0.5% FS	0.25% FS	0.1% FS				
	Output Signal						
	4/20mA (2 wire loop-powered)			0/5V volts			
	0/10V volts			1/5V volts			
	Pressure Port						
	M22x1.5		G1/4(1/4" BSPP male)				
	R1/4(1/4" BSPT male)		G1/2(1/2" BSPP male)				
	and others						
	Electrical Connection						
	DIN 43650 connector						
	3m Cable			3m IP68 Cable			
	and others						
	Display						
	No display						
	3½ digit LCD*						
	3½ digit LED*						
MRS22	1000bar	SG	0.5%	4/20mA	G1/4	DIN	

* Available only with 4/20mA output and DIN 43650 connector

Note: All specifications are subject to change without prior notice

Ver. 5.2-13/05