MRH21 High Frequency Pressure Transmitter



Features

- Frequency Response up to 1MHz
- High Measuring Accuracy
- Pressure Measurement of 0.1 to 1000bar
- Low Static and Thermal Errors
- Compact and Rugged Model
- Wide Range of Media Compatibility

Description

MRH21 series with embedded amplifier circuit is a rugged MEMS technology based pressure transmitter suitable for dynamic measurements. This compact pressure transmitter offers great flexibility and reliability for a wide range of applications at highly competitive pricing.

MRH21 is available in pressure ranges from 0.1 to 1000bar with voltage output. It is suitable for pressure measurement of gases & liquids compatible with stainless steel. While the standard Precision is 0.5% FS, you can optionally get a precision of 0.25% FS.

The robust construction of MRH21 with its high performance makes it ideal for demanding long term applications.

Applications

- Production machinery
- Oil and gas industry
- Machine tool control
- Research

Technical Specifications

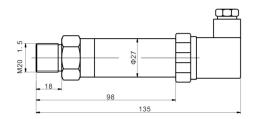
- Pressure media: all fluids compatible with stainless steel SS321
- Ranges: 0.1 to 1000bar
- Pressure references: Gauge, Sealed Gauge
- Overpressure rating: 200% FS
- Supply voltage: 12 to 32 VDC
- **Output signals:** 0/5V, 0/10V, 1/5V
- Precision: 0.5% FS (standard), 0.25% FS, combined LRH error
- Long term stability: <0.2% FS/year</p>
- Protection Level: IP65 with DIN connection; IP67 and IP68 (option) with cable connection

- Aerospace and military industries
- Open cut mining
- Data logging
- Hydraulic equipment
- Dynamic frequency response: 1MHz max.
- Compensated temp. range: 0 to 70°C
- Operating temp. range: 10 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: M20x1.5 or others
- Electrical connection: DIN43650 and others
- Case materials: SS321
- Diaphragm materials: Silicon
- Sealing: Epoxy adhesive sealing

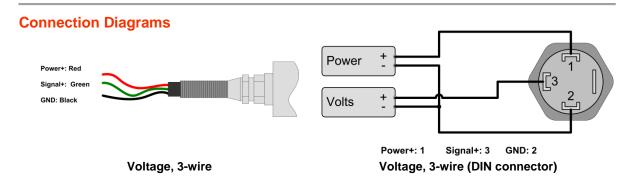
MRH21 High Frequency Pressure Transmitter



Dimensions



MRH21 with M20x1.5 port and DIN connector



Ordering Code MRH21 0.1, 0.2, 0.5, 1, 2, 5,10, 20, 50, 100, 200, 400, 600, 800, 1000 bar Range or other ranges in bar or psi **Pressure Reference** VG (vented gauge) SG (sealed gauge) Precision ± ⁽¹⁾ 0.5% FS 0.25% FS **Output Signal** 0/5V volts and **other** voltage outputs Pressure Port (2) M20x1.5 M12x1 1/2"NPT **G1/2**(1/2" BSPP male) and others **Electrical Connection** DIN 43650 connector 3m IP68 3m Cable Cable⁽³⁾ **MRH21** 200bar SG 0.5% 0/5V M20x1.5 DIN

Notes:

(1): Sensors with range of less than 1 bar and higher than 300bar are available only in accuracy of 0.5% FS.

- (2): Pressure port of $\frac{1}{4}$ " is not available for this sensor.
- (3): IP68 cable is available for sealed gauge reference.

All specifications are subject to change without prior notice

Ver. 5.6-17/10

MeasureX Pty Ltd U14, 42 Garden Boulevard, Melbourne VIC, 3172, Australia Tel: +61 3 9558 2420 email: Sales@MeasureX.com.au Website: www.MeasureX.com.au