MRG23

Flush Diaphragm Strain Gauge Pressure Transducer



Features

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



Description

MRG23 series with 17-4PH flush membrane 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 highly competitive pricing.

MRG23 comes in a range from 20bar to 600bar Full Scale Sealed Gauge with an output of mV/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 MRG23 with its high performance makes it ideal for demanding long term applications.

Applications

- Food industry
- Beverage machineries
- Data logging
- Pharmaceutical applications

- Agricultural equipment
- Industrial process control
- Compressed air line

Technical Specifications

- Pressure media: all fluids compatible with stainless steel 17-4PH
- Ranges: 0 to 600bar
- Pressure references: Sealed Gauge
- Overpressure rating: 150% FS
- Supply voltage: 5 to 12VDC
- Output signals: 1, 1.5 or 2mV/V
- Precision: 0.5% FS (standard), 0.25% FS, 0.1% 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

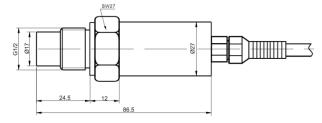
- Compensated temp. range: -10 to +60°C
- Operating temp. range: 20 to +80°C
- Temp. coefficient of zero: 0.03% FS /°C
- Temp. coefficient of span: 0.03% FS /°C
- Insulation resistance: 100MΩ @ 50VDC
- Process connection: G1/4 or others
- Electrical connection: DIN43650 or others
- Case materials: SS321 or 17-4PH
- Diaphragm materials: 17-4PH
- Sealing: n-Butyronitrile or fluoro-rubber sealing ring (Standard); Welded or integrated parts (option)

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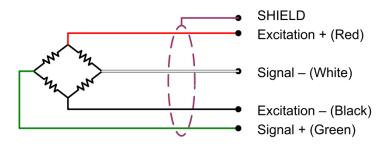


Dimensions

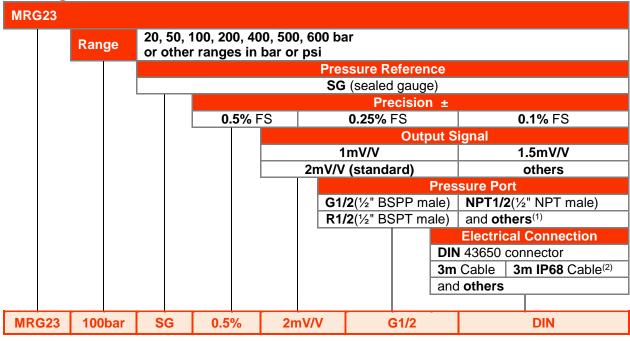


MRG23 with G1/2" flush type port and cable connector

Connection Diagrams



Ordering Code



Notes:

- (1): Pressure port of 1/4" is not available for this sensor.
- (2): IP68 cable is available for sealed gauge reference.
- All specifications are subject to change without prior notice

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