



Pressure Transmitter Series ADZ-SiMF-20.0

Stainless steel diaphragm flash

Pressure range 1 bar...10 bar absolute (0,1 MPa...1,0 MPa)

Output 0...10 V DC, 4...20 mA

Supply voltage 12...32 V DC

Operating temperature range -20 °C up to + 105 °C Protection class IP 65 acc. DIN EN 60 529

Construction

- Stainless steel diaphragm (with NBR-O-Ring)
 Silicon chip protected, oil filling cavitations
- □ Piezo-resistive principle
- □ Mixed Signal ASIC

□ Case: Lenght ca. 45 mm, ø 20 mm

□ Accuracy:□ Port connection:□ Port connection:□ Port connection:

□ Electrical connection: MVS DIN EN 175301-803 Form C *)

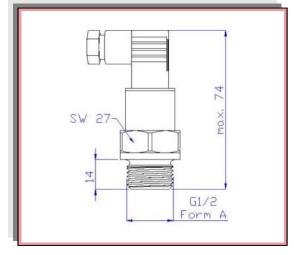
□ Weight: ca. 60 g



*) Others on request

Application / possible uses

- □ HAVC-Technic
- Sanitary technics
- □ Food industry
- $\quad \ \, \square \ \, \text{Pneumatic}$
- Test application
- Dosification pumps



Description

With the ADZ-SiMF uses a Silicon sensor produced in stainless steel laser welded with oil filling which one. This application offers our customers different use possibilities primarily in the sanitary and food industry as well as in special machines with measuring out pumps. This compact and robust high-grade steel explanation as a piezo-resistives measuring element is suitable for relative, absolute or been suitable excess pressure measuring.

High reliability, short delivery times and for media temperatures up to + 125 °C.

Form makes various use possibilities possible form A for a pressure connection with thread G 1/2". The electrical connection is delivery (see picture) with connections MVS DIN plug or other electrical connections/plugs on request.

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Type ADZ-SiMF-20.0

Min **Parameter** Тур Max Unit Remark Pressure range 1 bar 10 bar 1 Pressure type absolute Span 10 V 2 Output at FS 10 2 V Zero output 0 V 2 Total error (RT) 0,25 % FS 3 Total error (-20 °C to 85 °C) 1,5 % FS 4 0,5 1,5 5 Response time ms Load resistor 5 k Supply voltage (VS) 12 32 V 6 10 15 mΑ Supply current 7 2 Output source current mΑ 100 Μ 8 Isolation resistance Over pressure 2 times Burst pressure 3 times °C - 20 105 Operating temperature °C - 20 Media temperature 125 Storage temperature - 40 125 °C ca. 60 Weight g Mounting direction 9 no restriction

Remarks:

1. All parameter guarantied for specified conditions.

Technical information

- 2. Output is calibrated at zero and full scale.
- 3. Total accuracy includes non-linearity, offset and gain failures.
- 4. Total accuracy includes 3., hysteresis, repeatability and temperature effects (new parts, max. drift per year 0,1 %FS).
- 5. Measured from initial value to output at 90%.
- 6. The transmitter is protected against reverse polarity.
- 7. In addition to the supply current. The transmitter is short protected to VS and GND for short time.
- 8. Measured between case and pins (VDC 50 V for one minute).
- 9. Mounting force max. 25 Nm.
 - Wetted components 17-4PH stainless steel. NBR-O-Ring, silicone oil filled.
 - Measuring volume less than 1 mm³.
 - IP65.
 - Piezo-resistive principle, calibrated using mixed signal ASIC, no potentiometer, no laser trimming.
 - Pressure port G1/2" Form A, electrical connection on request.

- Mistakes and changes in the sense of technical improvements reserved. -

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