

## Pressure Transmitter Series ADZ-SiMF-20.0

Stainless steel diaphragm flash

<b>Pressure range</b>	<b>1 bar...10 bar absolute (0,1 MPa...1,0 MPa)</b>
<b>Output</b>	<b>0...10 V DC, 4...20 mA</b>
<b>Supply voltage</b>	<b>12...32 V DC</b>
<b>Operating temperature range</b>	<b>-20 °C up to + 105 °C</b>
<b>Protection class</b>	<b>IP 65 acc. DIN EN 60 529</b>

### 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: 1,5 % F.S. \*)
- Port connection: G 1/2" Form A
- Electrical connection: MVS DIN EN 175301-803 Form C \*)
- Weight: ca. 60 g



\*) Others on request

### Application / possible uses

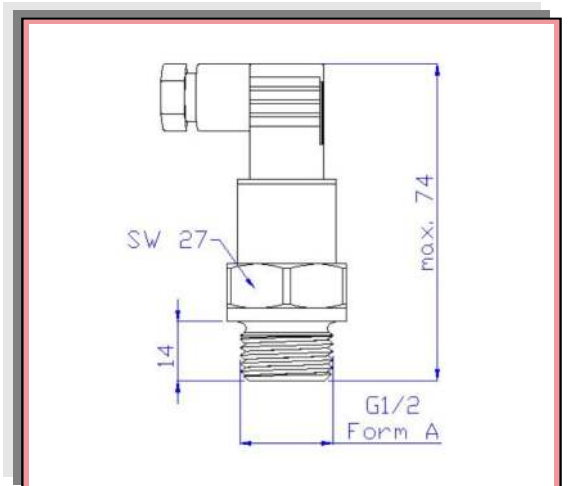
- HVAC-Technic
- Sanitary technics
- Food industry
- Pneumatic
- Test application
- Dosification pumps

### 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.



Technical information	Type ADZ-SiMF-20.0				
Parameter	Min	Typ	Max	Unit	Remark
Pressure range	1 bar		10	bar	1
Pressure type		absolute			
Span		10		V	2
Output at FS		10		V	2
Zero output		0		V	2
Total error (RT)			0,25	% FS	3
Total error (-20 °C to 85 °C)			1,5	% FS	4
Response time		0,5	1,5	ms	5
Load resistor	5			k	
Supply voltage (VS)	12		32	V	6
Supply current		10	15	mA	
Output source current	2			mA	7
Isolation resistance	100			M	8
Over pressure			2 times		
Burst pressure	3 times				
Operating temperature	- 20		105	°C	
Media temperature	- 20		125	°C	
Storage temperature	- 40		125	°C	
Weight			ca. 60	g	
Mounting direction			no restriction		9

**Remarks:**

- All parameter guaranteed for specified conditions.
- Output is calibrated at zero and full scale.
- Total accuracy includes non-linearity, offset and gain failures.
- Total accuracy includes 3., hysteresis, repeatability and temperature effects (new parts, max. drift per year 0,1 %FS).
- Measured from initial value to output at 90%.
- The transmitter is protected against reverse polarity.
- In addition to the supply current. The transmitter is short protected to VS and GND for short time.
- Measured between case and pins (V<sub>DC</sub> 50 V for one minute).
- Mounting force max. 25 Nm.

- Wetted components 17-4PH stainless steel. NBR-O-Ring, silicone oil filled.
- Measuring volume less than 1 mm<sup>3</sup>.
- 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. -