

MUESEN

PRODUCT



Pressure transmitter MSP101P



- Fixed measuring ranges up to 350bar
- Compact construction
- Simple mounting
- Excellent long term stability
- Long operational life
- Low price
- Option: HART®-Communication

Characteristics

- Pressure transmitter MSP101P with silicon piezoresistive stainless steel sensor is suitable for a wide variety of liquids, gases and vapors.
- It is a compact, economical system that provides measurement in gauge or absolute gauge measurement.

Nominal Pressure Range

- From: 0...35kPa
- Up to 0...350bar(gauge) 0...35bar(absolute)

Area for application

- Compressed air
- Non-aggressive gases
- Vacuum technology
- Pneumatics

Mounting Simplicity

- The MSP101P can be mounted in any orientation (vertical, horizontal, or inverted) without affecting its performance.
- M20X1,5 process connection (standard, others on request), 304SS
- 4 to 20mA output
- 10.5 to 45VDC power supply

Technische Daten

Measuring range												
Pressure gauge (bar)	0,35	0,7	1	2	3,5	7	10	20	35	70	100	350
Max. permissible overload (bar)	3X or 50MPa, whichever is less											
Absolutdruck (bar)	0,35	0,7	1	2	3,5	7	10	20	35			
Max. permissible overload (bar)	3X or 50MPa, whichever is less											
Power supply (polarity protected)												
Supply voltage	10,5–45 VDC											
Output signal												
2-wire-system	Standard: 4...20mA Optional: HART-protocol-communication											
3-wire-system(optional)	1...5 V											
Signal range-4 to 20 mA	3,8mA...20,8mA											
Signal on alarm	3,8mA/Option: 22,8mA/Others on request											

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Pressure Transmitter
MSP80
MSP80D
MSP80L
MSP101P
Temperature Transmitter
MST 8 series
Head Transmitter
MST 1 series
MST 3 series
MST 5 series
MST 6 series
LED Display
LEDD-01
LEDD-02
Accessories
proHART-100
proUSB-100

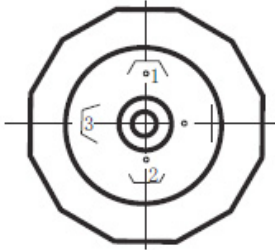
Electrical protection		
Instinct safe type	Ex ia II T4–CT6	
Insulation resistance	250Ω	
Short–Circuit protection	Permanent	
Reverse polarity protection	No damage, and no function	
Oversvoltage protection	500V	
Performance		
Accuracy	Nominal range	<0.2%
	Turndown 2:1	<0.25%
	Turndown 3:1	<0.3%
Power supply effect	Negligible	
Vibration effect	<0.01% of URL/g when tested 200Hz in any axis relative	
Thermal effect	±0.02%/FS/10K	
Permissible load	≤ 1000Ω	
Switch on delay	Typically 0.15% per year	
Response time	≤200ms((without consideration of electronic damping)	
Self stability configuration	0 to 2%	
Filter configured	0 to 160μA	
Adjustability	Two buttons	
Conditions		
Compensated temperature	0...70°C	
Storage	–20 to +85°C	
Environment	–40 to +125°C	
Ingress protection	IP 65	
Materials		
Housing	304SS	
Sensor	Silicon piezoresistive stainless steel sensor	
Seals	FPM/Others: on request	
Process connection		
Standard	M20x1.5	
Optional	G1/2/NPT1/2/NPT1/4/G1/4 Others on request	
Others		
Display	4–digit, red LED display, digit height 7mm, digit width 4.85mm	
Display range	–1999–9999	
Weight	Approx. 190g (with Display)	

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Elektrical Connection

Pin Configuration



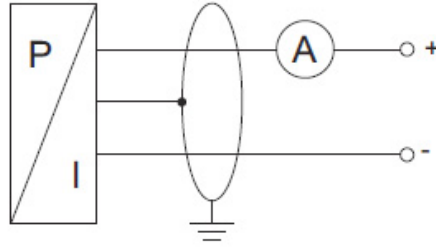
Wiring diagrams

2-Leiter System:

- 1: Stromversorgung +
- 2: Stromversorgung -
- 3: GND

Versorgungsspannung: 10 bis 45VDC

Ausgangssignal: 4 bis 20mA



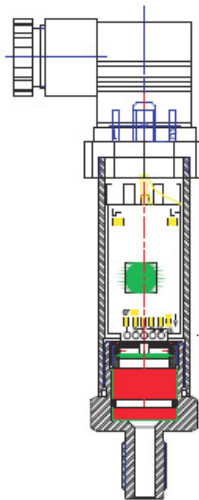
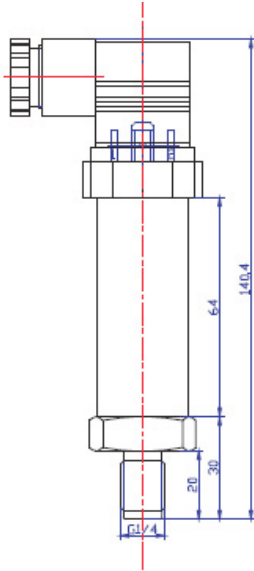
3-Leiter System:

- 1: Stromversorgung +
- 2: Stromversorgung - (Signal-)
- 3: Signal+

Versorgungsspannung: 10 bis 45VDC

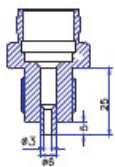
Ausgangssignal: 1 bis 5V

Dimensions

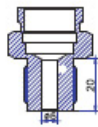


Dimensions in mm

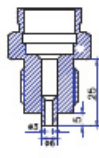
Mechanical Connection



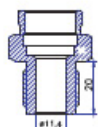
M20X1.5 EN
Ordering code: 01



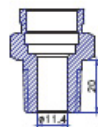
M20X1.5 DIN
Ordering code: 02



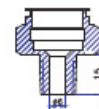
G1/2 EN
Ordering code: 03



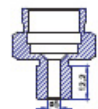
G1/2 DIN
Ordering code: 04



1/2 NPT
Ordering code: 05



1/4 NPT
Ordering code: 06



G1/4
Ordering code: 07

Standard

Optional

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Type	MSP101P																			
Pressure																				
	Gauge	G																		
	Absolute	A																		
Communication Type																				
	HART	H																		
	Digital	D																		
Meas. Range																				
	0...0,35		3	5	0	0														
	0...0,7		7	0	0	0														
	0...1		1	0	0	1														
	0...2		2	0	0	1														
	0...3,5		3	5	0	1														
	0...7		7	0	0	1														
	0...10		1	0	0	2														
	0...20		2	0	0	2														
	0...35		3	5	0	2														
	0...70		7	0	0	2														
	0...200		2	0	0	3														
	0...350		3	5	0	3														
	Others on request		9	9	9	9														
Process connection																				
	M20X1,5 EN						0	1												
	M20X1,5 DIN						0	2												
	G1/2 EN						0	3												
	G1/2 DIN						0	4												
	1/2NPT						0	5												
	1/4NPT						0	6												
	G1/4						0	7												
Seals																				
	FPM								0	1										
	Others on request								9	9										
Wetted Parts Material																				
	SUS304										0	1								
	Others on request										9	9								
Electrical connection																				
	Hirschmann GDM3009											0	1							
	Others on request											9	9							
LCD Display																				
	None																		N	
	With Display																		D	
Other Options																				
																			9	9

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Typical model number: MSP101T-G-H-1001-01-01-01-01-D
 * Absolute near. Rangges > 35 bar unavailable