

Pressure sensors for food industry

with front flush diaphragm for gauge and absolute pressure

accuracy 0.5 %

standard output: 4...20 mA; 2-wire-system

or 0...10 VDC; 3-wire-system



Description

tecsis pressure sensors for the food industry fulfil the special requirements of pressure connections in food industry, and they offer a wide range of different connections.

The combination of pressure sensor and special connection result in a better performance of the instrument. It can replace a necessary chemical seal system. All wetted parts are made of stainless steel and completely welded. The robust case is also made of stainless steel. It provides a protection type of at least IP65. The pressure transmitting liquid is approved by FDA.

The pressure sensor model P3269 is designed to ensure the surfaces exposed to the process are crack or crevice free according to the hygienic prescriptions. Pressure connections with clamp-connector or according to DIN 11851 respectively Varivent connections are available.

An integrated cooling element guarantees temperature ranges up to 150 °C.

Features

- O Compact design
- O Corrosion resistant stainless steel version
- O High overload capacity
- O Special pressure connection directly on the sensor
- Aseptic pressure connection
- O Wetted parts 14435

Measuring ranges

Gauge pressure

Negative -1...0 bar

positive 0...0.25 bar up to 0...25 bar

Absolute pressure 0...0.25 bar up to 0...16 bar

Application

Dairies and breweries, food industry, pharmaceutical industry, sterilizers

Model: P3269

Technical data

Model	P3269							
Pressure type	positive gauge pressure absolute pressure							
Output signal	420 mA - 2-wire system 020 mA - 3-wire system 010 VDC - 3-wire system							
Pressure ranges 1)	0.25 0.4	0.6 1.0	2.5	4	6	10	16	25
Overload limit	2 2	4 5	10	17	35	35	80	80
Accuracy % of F.S. 2)	0.5							
Repeatability	< ± 0.05 % of F.S							
Stability per year	< ± 0.2 % of F.S. in rated conditions							
Case	stainless steel 1.4571							
Pressure connection	Tri-Clamp 1 ½ "; Option: Tri-Clamp 2" Union nut DIN 11851 DN 25; DN40; DN50. Union nut DIN 11864-1 DN40; DN50. Clamp ISO 2852 DN 33,7; DN 38; DN 40; DN 51. Clamp DIN 32676 DN 32; DN 40; DN 50.							
Wattad parts	Varivent connection form F; form N. stainless steel 1.4435							
Wetted parts Electrical connection			- I /DII	NI ENI 47	F204 00	2.4\		
Electrical conflection	rectangular plug form A with junction box (DIN EN 175301-803 A) round connector M12x1, 4-pin cable outlet with 10 m cable							
Power supply / Load - 420 mA - 020 mA - 010 V	1030 VDC 1030 VDC 1430 VDC	$R_A[\Omega] \le (U_B[V] - R_A[\Omega] \le (U_B[V] - R_A[\Omega] \le (U_B[V] - R_A[\Omega] $						
Power consumption		- 10 KG11111						
- 420 mA	Signal current							
- 020 mA	signal current + 4 mA							
- 010 V	8 mA							
Temp. comp. range	080°C							
Average TC of								
zero point ³)	< ± 0.2 % /10 K							
– span	<u><</u> ±0.2 % /10 K							
Adjustability 4)	Zero point and full scale up to ± 10 %							
Response time	≤ 10 ms (from 10 % to 90 % of f.s.)							
Protection type	ID 65 to EN 60520/IEC 520							
	IP 67 for M12x1 connector IP 68 for cable outlet 4)							
	IF 00 101 Cable 00	tlet ⁴⁾						
Emission 5)	Acc. to EN 61326							
Interference ⁵)	acc. to EN 61326							
Electrical protection type	Polarity, over volta	age and short-cird	uit protect	tion				
Temperature ranges								
- Storage	-40 100 °C							
- Medium	-20 150 °C							
- Ambient	-20 80 °C							
Weight	approx. 0.2 kg							

of F.S. = of full scale value

- 1)
- Absolute pressure 0... 2.5 bar to 0... 16 bar

 Terminal point adjustment according to DIN 16086 incl. linearity and hysteresis. Installation position vertical.

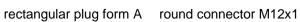
 ≤ 0.4 % /10K for pressure range 0... 0.25 bar

 ≤ 0.25 % /10K for pressure ranges0... 0.4 bar

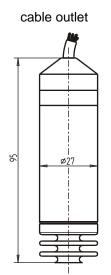
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- 2) 3)
- 4)
- Declaration of conformity on request

Dimensions (mm)

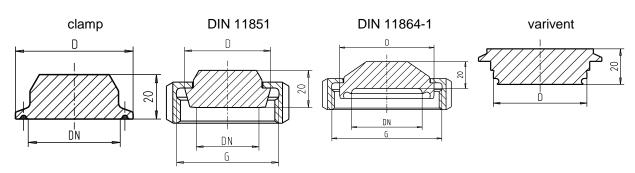
Case



48



Pressure connection

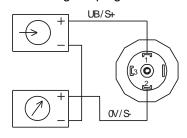


Pressure connection		Nominal diameter	Dimensions (mm)		
		DN	D	Ğ	
Clamp	Tri-clamp	1 ½ "	50		
		2 "	64		
	DIN 32676	DN 32	50		
		DN 40	50		
		DN 50	64		
	ISO 2852	DN 33,7	50		
		DN 38	50		
		DN 40	64		
		DN 51	64		
Union nut DIN 11851 with conical coupling, for tubes to DIN 11850		DN 25	44	Rd 52 x ¹ / ₆	
		DN 40	56	Rd 65 x ¹ / ₆	
		DN 50	68.5	Rd 78 x $^{1}/_{6}$	
Union nut DIN 11864-1 with liner form A, for tubes to		DN 40	54.9	Rd 65 x ¹ / ₆	
DIN 11850		DN 50	66.9	Rd 78 x ¹ / ₆	
Varivent	form F	DN 25/32	50		
	form N	DN 40/50	68		

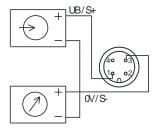
Electrical connection

Two-wire system

rectangular plug form A

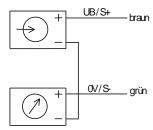


round connector M12x1



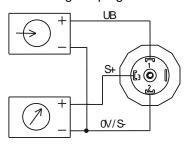
cable outlet

E-001

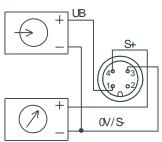


Three-wire system

rectangular plug form A

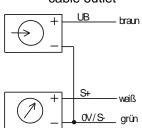


round connector M12x1



cable outlet

E-002



Connection table for DIN plug or cable outlet

Connection table for bild plug of cable outlet							
	420 mA		010VDC				
	(2 - wire)		(3 - wire)				
Supply: +UB	1	brown	1	brown			
Supply: 0V	2	green	2	green			
Signal: +S	-	-	3	white			
Signal: -S	-	-	2	green			

Order details

- 1. Model
- 2. Measuring range
- 3. Output signal
- 4. Options

Subject to technical changes

E-034