

# **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

> 0...10 VDC: 3-wire-system or



#### **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 clampconnector or according to DIN 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
- O Aseptic pressure connection
- O Wetted parts 14435
- O Certificate according to EHEDG and 3A sanitary standards

#### 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

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## **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. <sup>2</sup> )	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. Varivent connection form F; form N.								
Wetted parts	stainless steel 1.4435								
Electrical connection	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	1030 VDC	$R_A[\Omega] \le (U_B[V]-10V) / 0.02A$							
- 020 mA - 010 V	1030 VDC 1430 VDC			3V) / 0.02	A				
Power consumption	1430 VDC	> 10 k	Onn						
- 420 mA	Signal current								
- 020 mA		signal current + 4 mA							
- 010 V	8 mA								
Temp. comp. range	080°C								
Average TC of									
<ul><li>zero point</li><li>3)</li></ul>	< ± 0.2 % /10 K								
– span	< ± 0.2 % /10 K								
Adjustability 4)	Zero point and full scale up to ± 10 %								
Response time	\( \leq 10 \text{ ms} \) (from 10 % to 90 % of f.s.)								
Protection type	IP 65 to EN 60529/IEC 529								
	IP 67 for M12x1 connector								
Emission 5)	IP 68 for cable outlet  Acc. to EN 61326								
Interference 5)	acc. to EN 61326								
Electrical protection type	Polarity, over voltage and short-circuit protection								
Temperature ranges	. cianty, over vo	go unu	3.1371 0111	Jan protot					
- Storage	-40 100 °C	-40 100 °C							
- Medium	-20 150 °C								
- Ambient	-20 80 °C								
Weight	approx. 0.2 kg								

of F.S. = of full scale value

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

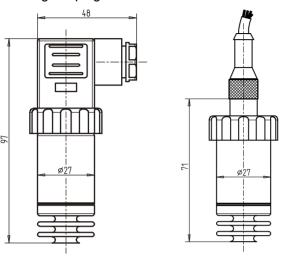
  Terminal point adjustment according to DIN 16086 incl. linearity and hysteresis. Installation position vertical.

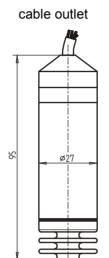
  ≤ 0.4 % /10K for pressure range 0... 0.25 bar
  ≤ 0.25 % /10K for pressure ranges0... 0.4 bar
- 4) No adjustability possible for cable outlet
- 5) Declaration of conformity on request

## Dimensions (mm)

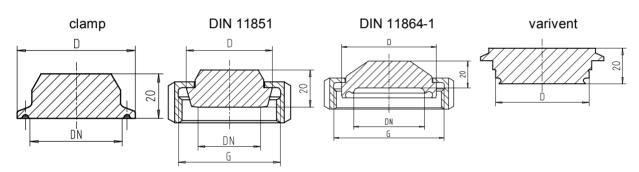
## Case







## **Pressure connection**

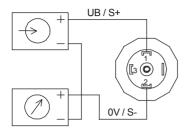


		Nominal diameter	Dimensions (mm)		
Pressur	e connection	DN	D 50 64 50 50 64 50 50 64 64 44 56 68.5 54.9	G	
Clamp	Tri-clamp	1 ½ "	50		
		2 "	64		
	DIN 32676	DN 32	50		
		DN 40	50		
		DN 50	64		
	ISO 2852	DN 33,7	50		
		DN 38	50		
		DN 40	64		
		DN 51	64		
Union nut DIN 11851 with conical coupling, for tubes to DIN 11850		DN 25	44	Rd 52 x <sup>1</sup> / <sub>6</sub>	
		DN 40	56	Rd 65 x <sup>1</sup> / <sub>6</sub>	
		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 <sup>1</sup> / <sub>6</sub>	
DIN 11850		DN 50	66.9	Rd 78 x <sup>1</sup> / <sub>6</sub>	
Varivent	form F	DN 25/32	50		
	form N	DN 40/50	68		

#### **Electrical connection**

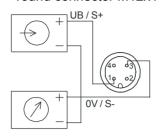
## Two-wire system

## rectangular plug form A



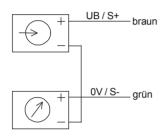
E-001

## round connector M12x1



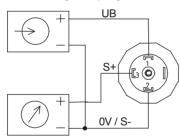
E-033

## cable outlet



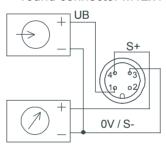
## Three-wire system

## rectangular plug form A



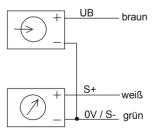
E-002

## round connector M12x1



E-034

#### cable outlet



Connection table for DIN plug or cable outlet

Connection table for DIN plug or cable outlet								
	420 mA		010VDC					
	(2	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