

Pressure sensors "Miniature"

with internal and front flush diaphragm accuracy 0.5 %

Pressure sensors "Miniature" are top of the range pressure

Due to its miniaturized construction they are the perfect

choice for extreme space-saving installation. Reliability,

resistance to corrosion and mechanical load make them

The measuring ranges, graded in accordance with EN, range from 16 bar to the maximum pressure range of 1000

bar. The case and wetted parts comprise stainless steel and are thus resistant to chemically aggressive media. The pressure connection and measuring element are

welded together, making the measuring system particularly resistant to mechanical shock or vibration.

Round connectors M12x1, DIN 43650 C plugs or cable outlets are used to pick up the electrical output signals.

The pressure sensors "Miniature" meet the electronic magnetic compatibility (EMC) requirements to EN 61326.

suitable for all pressure measuring tasks.

standard output:

Description

transducers.

4 20 mA;		2-wire	e-system
or	0.110 V	DC;	3-wire system
or	1 5 V	DC;	3-wire system



Features

- o miniaturized construction
- o pressure connection G $^{1\!\!/}_{4}$ B to DIN 3852 E or G1/4 B front flush
- o high peak pressure resistance
- o high alternating load resistance
- o high long-term stability
- o corrosion resistant stainless steel design
- o resistant to mechanical load
- o for dynamic and static measurements

Measuring ranges

Gauge pressure

positive	016 bar to 01000 bar with internal diaphragm
positive	025 bar up to 01000 bar with front flush diaphragm

Applications

Hydraulics and pneumatics,

general mechanical engineering,

medical engineering

Models: P3325, P3326

tecsis GmbH Carl-Legien Str. 40 D-63073 Offenbach / Main Tel.: +49(0) 69 / 5806-0

Sales National Fax: +49(0) 69 / 5806-170 Sales International Fax: +49(0) 69 / 5806-177 e-Mail: info@tecsis.de Internet: www.tecsis.de

Technical data

Model	P3325	P3326	Option		
Pressure type	positive gauge pressure		positive gauge pressure		
Output signal	420 mA - 2- wire system	n			
	15 V - 3- wire system	15 V - 3- wire system 0.110 VDC - 3- wire system			
-	0.110 VDC - 3- wire system	0.110 VDC - 3- wire system			
Accuracy	0.5 % of F.S. ¹)				
Ranges to EN		016 bar to 01000 bar 025 bar to 0600 bar			
Sensor element	thin film				
Repeatability	\leq ± 0.05 % of F.S.	\leq ± 0.05 % of F.S.			
Stability per year	\leq ± 0.2 % of F.S. in rated conditio	\leq ± 0.2 % of F.S. in rated conditions			
Case	stainless steel 1.4571				
Pressure connection	G ¼ A to DIN 3852 form E	G ¼ B front flush diaphragm	other on request		
	with Viton $^{(\![m]\!]}$, sealing	with o-ring			
	G ¼ B to EN 837				
Wetted parts	stainless steel 1.4571 and	stainless steel 1.4571, NBR			
Welled pullo	1.4542				
Overload limit	$\leq 600 \text{ bar}$ 2- x				
	= 1000 bar 1.5- x				
	vacuum resistant				
Electrical connection	round connector M12x1 (4-pin)				
	cable outlet with 1.5 m cable				
	plug DIN 43650 C with junction be				
Power supply					
– 420 mA	10 30 VDC				
– 15 V	8 30 VDC				
– 0.1 10 V	14 30 VDC				
Power consumption	current output: signal current				
	voltage output: 8 mA				
Load					
420 mA	$RA[\Omega] \le (UB[V] - 10V) / 0.02 A$				
15 V	-	> 10 kΩ			
0.1 10 V	> 20 kΩ				
Temperature comp. range	-20 85°C				
Temperature influence	± 0.2 % /10 K, on zero and span				
Response time	\leq 2 ms (within 10 % to 90 % of F.				
Protection type	IP65 to EN 60 529/IEC 529	IP67 on request			
Emission ²)	to EN 61326				
Interference ²)	to EN 61326				
Electrical protection types polarity, overload and short-circuit protection					
Temperature ranges					
– storage	-40 100 °C				
– media	-40 100 °C				
– ambient ³⁾	-40 100 °C				
Weight	ca. 0.05 kg				
			of F.S. = of full scale value		

Terminal point adjustment according to DIN 16 086, incl. linearity and hysteresis
Declaration of conformity on request
Version for oxygen from 25 bar, max. 60°C
Viton [®] fluoroelastomer, a product of DuPont Dow Elastomers

Dimensions

Case

round connector M12x1





cable outlet



Pressure connection

internal diaphragm

G ¼ A DIN 3852 –E

G ¼ B EN 837

front flush diaphragm G ¼ B







Screw-in aperture to

G ¼ DIN 3852-E





G ¼



G ¼

S-009

Electrical connection

Two-wire system

round connector M12x1



plug DIN 43650 C

cable outlet





Three-wire system





E-034

plug DIN 43650 C



cable outlet



E-006

E-017

Connection table for DIN plug or cable outlet

		420 mA (2 - wire)			010VDC (3 – wire)		
	plug M12x1	DIN plug	cable outlet	plug M12x1	DIN plug	cable outlet	
Supply: UB+	1	1	brown	1	1	brown	
Supply: 0V	3	2	green	3	2	green	
Signal: S+		-	-	4	3	white	
Signal: S-		-	-	3	2	green	

Order details

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