3327.084.xx

1: Shield

\_250 ba



# Pressure sensors with "CANopen-Interface "

With internal or front flush diaphragm

Accuracy 0,5 % or 1 %

CANopen-interface according to DS-3 **Device profile DS-404** 





### Description

The pressure sensors with CANopen-interface are top of the range pressure transducers.

With the CANopen sensor tecsis offers a new generation of transducers for standard applications and mechanical engineering. This sensor provides good performance and quality for a very attractive price.

The measuring ranges, graded in accordance with EN, range from 0...0,25 bar to the maximum pressure range of 1000 bar

Case and wetted parts made of stainless steel are 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.

The front flush diaphragm is available for measurements of highly viscose media.

Communications services as LSS, Node Guarding, Heartbeat, synchronous and asynchronous data transmission are supported. The Baud rate can be selected between 20K Baud and 1M Baud.

The pressure sensor with CANopen-Interface meets the electronic magnetic compatibility (EMC) requirements to EN 61 326

### **Features**

- 0 Compact design
- 0 High resistance to pressure peaks
- 0 High alternating load resistance
- Ο Good long-term stability
- Corrosion resistant, stainless steel design Ο
- Ο High mechanical load rating
- Galvanic isolation optional available 0
- 0 Integrated Y-connector optional available

#### Measuring ranges

Gauge pressure	
positive	00,25 bar to 01000 bar with internal diaphragm
positive	00,25 bar to 0600 bar with front flush diaphragm

### Applications

Hydraulics and pneumatics, mechanical engineering, industrial application

> Model: P3327, P3328

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 DE 764 b

### **Technical data**

Model	P3327	P3328	Option
Pressure type	gauge pressure	·	absolute pressure
Output signal	CANopen protocol acc. C		
	Device profile DS-404 V.		
Accuracy	1 % of F.S. 1)		0.5 % of F.S. <sup>1</sup> )
Measuring ranges acc. EN	0 0.25 bar to 0	0 0.25 bar to 0 600 bar	other on request
Sonsor alamant	Diozorosistivo / thin film		
Pepeatability			
Stability (appual)	$\leq \pm 0.05\%$ of F.S.	-	
	$\leq \pm 0.2$ % of F.S. In fated		
Case	Stainless steel		
Pressure connection	Internal diaphragm	Front flush diaphragm	other on request
	0 ¼ B, G ¼ B, ¼ NPT, 1∕2 NPT	$\leq$ 1.6 bar G 1 B; $\geq$ 2.5 bar G $\frac{1}{2}$ B	
Wetted parts	Stainless steel	Stainless steel, NBR	
Overload limit	≤ 16 bar		
	≥ 25 bar	2 x	
	= 1000 bar	1.5 x	
	vacuum resistance		
Electrical connection	Round connector M12 x 1; 5-pin.		other on request
Power supply	10 30 VDC		
Power input	< 0,5W (with galvanic isol		
Communication service	LSS (CiA DSP 305, Versio		
	Configuration of device ac		
	Sync/Async, Node/Lifegua	-	
Filter	Individually programmable resonance frequencies		
Temp, compens, range	0 80°C		
Temperature influence	± 0.2 % /10 K. zero point a		
Adjustability	Zero point and full scale u		
	directory		
Response time	1,5 ms (Baud rate ≥ 125K		
Measuring rate	Internal 1000 Hz (adjustat		
Protection type	IP67 according to EN 60 52		
Emission <sup>2</sup> )	according to EN 61326 ( 8		
Interference	(Module H)		
Electrical protection types	polarity, overload and sho	galvanic isolation	
Temperature ranges			
– Storage	-40 100 °C		
– Medium <sup>3</sup> )	-30 100 °C	Option -40125 °C	
– Ambient	-30 85 °C		
Weight	approx. 0,2 kg		

of F.S. = off full scale value

1) Terminal point adjustment, incl. linearity and hysteresis

2) Declaration of conformity on request

3) For oxygen version media temperature: -30...60°C, model P3328 max. 160 bar, not available for absolute pressure range <1bar abs.

### **Dimensions (mm)**

### Case

- with welded connector



- Option DIP-switch/ galvanic isolation <u>M12x1</u>

- with Y-connector



### Pressure connections Internal diaphragm









## Pressure connections Front flush diaphragm





### **Electrical connection**

Round connector M12 x 1 5-pin.



- 1 Screen
- 2 UB+ (CAN V+)
- 3 UB- (CAN GND)
- 4 Bus-Signal CAN-High
- 5 Bus-Signal CAN-Low

Option with integrated Y-connector

Round connector M12 x 1 5-pin. (male)





Round connector M12 x 1 5-pol. (female)

You will find supplementary documentation as operating manual and software for CANopen on our internet:

www.tecsis.de.

#### Order details

- 1. Model
- 2. Measuring range
- 3. Options

Subject to technical alternations

DE **7**64 b