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EPS2

Product Information

Pressure Transmitter EPS2



- Measuring cell made of stainless steel, hermetically welded
- Analog signal 4..20 mA (two-wire)
- Very rapid reaction time thanks to analog signal path with mixed signal ASIC
- Ranges from 0.6..2000 bar relative pressure
- Robust full metal housing
- Class: 0.5 % standard
- Working temperature -40 °C to +100 °C
- Poly-Si on SiO₂ (thin film resistors)
- M12x1 plug system (or others on request)

Characteristics

The pressure transducer measures pressures in liquids and gases. It has the following applications:

- Hydraulics
- Testing technology
- Pneumatics
- Industrial robots
- Mobile systems
- Process control
- Air-conditioning + heating
- Water technology
- Vehicle technology

The stainless steel membrane is fitted with a polysilicon thin film cell, completely vacuum-tight, extremely burst resistant, and it can be used in all applications which are compatible with stainless steel. The analog measuring path, which is conditioned by means of an ASIC, permits the most rapid response times, with the need for only a few components. The sensors are calibrated digitally, and the components have very good long term stability and a small total error.

Technical data

Sensor	thin film pressu				
Process connection	on stainless steel membrane male thread G ¹ / ₄ A				
Pressure type	relative pressu	· ·			
Metering ranges in	Range	Overload	Burst		
bar		pressure	pressure	L	
= preferred types	0 0.6	1.2	2.4	L	
	0 1.0	2.0	3.0	4	
	0 2.0	4.0	6.0	ľ	
	0 2.5	5.0	7.5	L	
	0 4.0	8.0	12.0	L	
	0 6.0	12.0	18.0	_	
	0 10.0	20.0	30.0	,	
	0 16.0	32.0	48.0	L	
	0 25.0	50.0	75.0	Ľ	
	0 40.0	80.0	120.0	Ľ	
	0 60.0	120.0	180.0	L	
	0 100.0	200.0	300.0	,	
	0 160.0	320.0	480.0	L	
	0 250.0	500.0	750.0	L	
	0 400.0	600.0	800.0	1	
	0 600.0	900.0	1200.0		
	01000.0	1200.0	1500.0		
	01600.0	1920.0	2400.0		
	02000.0	2400.0	3000.0		
Measurement	nt accuracy class 0.5				
accuracy	total error (Nor				
	esis + tempera	ature effect + re	epeatability)	:	
	-40+20 °C	±3 % typica	ally ±2 %		
	-20+85 °C	±1 % typica	ally ±0.7 %		
	85100 °C	±2.5 % typi	cally ±1.5 %)	
Response time	(1090 %) < 1 ms				
Pressure resistance	corresponds to metering range				
Media temperature	-40+125 °C				
Ambient	-40+105 °C				
temperature	40 - 405 00				
Storage	-40+125 °C				
temperature Media	fluids and gases				
Materials	fluids and gases 1.4301				
medium-contact	1.4301				
Materials, non-	Housing	stain	less steel		
medium-contact	Seal	FKM			
Supply voltage	1032 V DC		-		
Analog output	420 mA two-v	wire			
Load	max. (battery voltage -10 V) / 20 mA				
Electr. connection					
Reversal polarity protected	for round plug connector M12x1, 4-pole yes				
Ingress protection	IP 65 / 67				
Weight	approx. 0.2 kg				
Conformity	CE				
EMC	interference radiation DIN EN 55011: < 30 dB µV/m Interference immunity DIN EN 61000-4-3: 25 V/m				
Shock test	1 m onto steel plate (as per IEC68-2-32) Vibration 20 g (as per IEC 68-2-6 and 68-2-36)				

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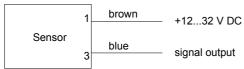
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Product Information

EPS2

Wiring

EPS2-....S



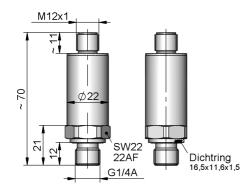
EPS2-....B



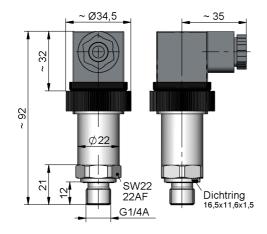
Before the electrical installation, it must be ensured that the supply voltage corresponds with the data sheet.

Dimensions

EPS2-....S



EPS2-....B



Handling and operation

Installation

The pressure transducers are screwed into a nozzle or a T-piece in the pipework. The seal is made by means of the integrated ED sealing ring. The installation of the pressure transducer should result in no significant reduction of the cross-section of the pipework. When tightening the pressure transducer, use only the hexagonal spanner (SW22) specifically provided. Avoid installation locations with high pressure surges (see permitted overload pressure).

Ordering code

	1.	2.	3.	4.	5.
EPS2 -		R	K	800	

O = Option

	•			
1.	Metering range			
	00006	0 0.6 bar		
	00010	0 1.0 bar		
	00020	0 2.0 bar		
	00025	0 2.5 bar		
	00040	0 4.0 bar		
	00060	0 6.0 bar		
	00100	0 10.0 bar		
	00160	0 16.0 bar		
	00250	0 25.0 bar		
	00400	0 40.0 bar		
	00600	0 60.0 bar		
	01000	0 100.0 bar		
	01600	0 160.0 bar		
	02500	0 250.0 bar		
	04000	0 400.0 bar		
	06000	0 600.0 bar		
	10000	01000.0 bar		
	16000	01600.0 bar		
	20000	02000.0 bar		
2.	Pressure type			
	R	relative pressure		
3.	Connection material			
	K	stainless steel 1.4301		
4.	Connectio	n size		
	800	male thread G ¹ / ₄ A		
5.	Electrical connection			
	S	for round plug connector M12x1, 4-pole		
	В	plug DIN 43650-A / ISO 4400		

Options

Special measuring ranges

Accessories

 Cable/round plug connector (KB...) see additional information "Accessories"

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