Honsberg Instruments GmbH

Tenter Weg 2-8 ◆ 42897 Remscheid ◆ Germany Fon +49 (0) 2191 - 9672 - 0 ◆ Fax - 40 www.honsberg.com ◆ info@honsberg.com

HONSBERG

Product Information

Pressure Transmitter EPS1



- 4..20 mA two-wire pressure transducer
- Ceramic cell made from Al₂O₃
- Pressure cell protected from mechanical damage
- Infinitely adjustably rotatable cable outlet for clean alignment

Characteristics

The EPS1 pressure transformer measures static and dynamic pressures in fluids and gases. The robust 100% metal construction makes it suitable for universal industrial use.

The pressure transformer consists of a measuring cell (four extension measurement cells using thick film technology applied to a ceramic substrate) and the converter / counter. This converts the bridge signal into a pressure-proportional 4..20 mA signal. The pressure cell is connected to the medium via a drilling with 8 mm diameter, and this construction protects it securely from mechanical damage.

Technical data

Sensor	ceramic cell with measuring bridge using thick film technology		
Process connection	male thread G ¹ / ₂ A or G ¹ / ₄ A		
Metering ranges	(relative pressure, pressure difference from environment) in bar		
	Range	Burst pressure	
	0 1	4	
	0 2	6	
	0 5	15	
	0 10	40	
	0 20	60	
	0 50	150	
	0100	280	
	0200*	400	
	0400*	1050	
	* available only on request for gases		
Measurement	±1 % of final value;		
accuracy	plus 0.05 %/K at < 0 °C and > 60 °C		
Repeatability	±0.5 % of full scale value		
Pressure resistance	corresponds to metering range		

Professional Instrumentation

EPS1

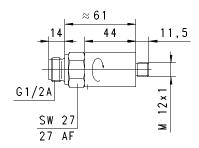
Media	-20+80 °C	
temperature	(with gooseneck option max. 120 °C)	
Ambient	-20+70 °C	
temperature		
Storage	-20+80 °C	
temperature		
Media	fluids and gases	
Material	probe 1.4571, Al ₂ O ₃ , FKM	
medium-contact		
Materials	CW614N, PP, NBR	
non-medium-		
contact		
Supply voltage	1030 V DC ±10 %	
Analog output	420 mA two-wire	
Load	max. 800 Ohm at 24 V	
	(100 Ohm at 10 V/1.1 kOhm at 30 V,	
	linear at operating voltage)	
Electrical	for round plug connector M12x1, 4-pole	
connection	or plug DIN 43650-A / ISO 4400	
Reversal polarity	yes	
protected		
Ingress protection	IP 67 round plug connector	
	IP 65 plug DIN 43650-A / ISO 4400	
Weight	approx. 0.3 kg	
Conformity	CE	

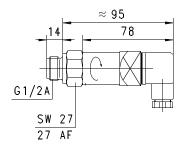
Wiring

Sensor	1_	brown	+1030 V DC
	2	white	signal output

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

Dimensions





"MADE IN GERMANY"



pi-ho_dr-eps1_e V1.00-00

1

Honsberg Instruments GmbH

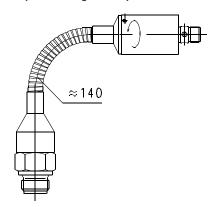
Tenter Weg 2-8 • 42897 Remscheid • Germany Fon +49 (0) 2191 - 9672 - 0 • Fax - 40 www.honsberg.com • info@honsberg.com

HONSBERG

Product Information

EPS₁

"Gooseneck" option for higher temperatures



Handling and operation

Installation

The pressure transformers are screwed into a nozzle or a T-piece in the pipework, using a suitable sealing material (e.g. Klingerit). The installation of the pressure sensor should result in no significant reduction of the cross-section of the pipework. When tightening the pressure sensor, use only the hexagonal spanner (SW27) specifically provided.

Avoid installation locations with high pressure surges (see overload limits).

In the high temperature model with flexible gooseneck, the pressure transformer can be operated up to a media temperature of 120 $^{\circ}\text{C}.$

Ordering code

	1.	2.	3.	4.	5.	6.
EPS1 -		R	K			

O = Option

1.	Metering range			
	001	0 1 bar		
	002	0 2 bar		
	005	0 5 bar		
	010	0 10 bar		
	020	0 20 bar		
	050	0 50 bar		
	100	0100 bar		
	200	0200 bar		
	400	0400 bar		
2.	Pressure	Pressure type		
	R	relative pressure		
3.	Connection material			
	K	stainless steel 1.4571		
4.	Connection size			
	800	male thread G ¹ / ₄ A		
	015	male thread G ¹ / ₂ A		
5.	Electronic connection			
	S	for round plug connector M12x1, 4-pole		
	в о	plug DIN 43650-A / ISO 4400		
6.	Option			
	O H	model with gooseneck		

Accessories

- Cable/round plug connector (KB...) see additional information "Accessories"
- converter / counter OMNI-TA

