

**efectorsoo**



Pressure sensors

## PT3551

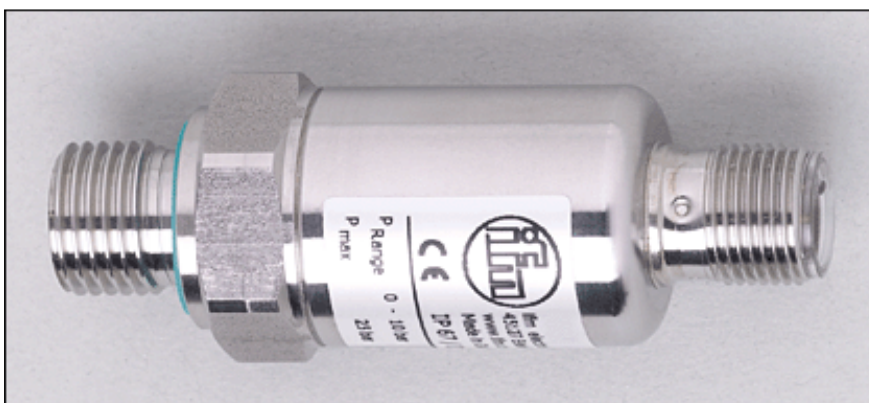
Electronic pressure sensor  
PT35

Process connection G $\frac{1}{4}$  A

for mobile applications  
e1 compliant

Analog output

Measuring range  
0...250 bar



<b>Application</b>	<b>Type of pressure: relative pressure</b> <b>Liquids and gases</b>
<b>Electrical design</b>	<b>DC</b>
<b>Output</b>	<b>4...20 mA analog</b>
Operating voltage [V]	8.5...32 DC
Reverse polarity protection	yes
Analog output	4...20 mA
Load for analog output [ohms]	max. (Ub - 8.5 V) x 50; 775 bei Ub = 24V
Pressure rating [bar]	400
Bursting pressure min. [bar]	1000
<b>Accuracy / deviations</b> <b>(in % of the span)</b>	
Characteristics deviation *)	< $\pm$ 1.0
Linearity	< $\pm$ 0.25 (BFSL) / < $\pm$ 0.5 (LS)
Hysteresis	< $\pm$ 0.2
Repeatability **)	< $\pm$ 0.1
Long-term stability ***)	< $\pm$ 0.1
Temperature coefficients (TEMPCO) in the temperature range -25...90° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	< $\pm$ 0.4
Greatest TEMPCO of the span	< $\pm$ 0.2

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Step response time analogue output [ms]	8
Ambient temperature [°C]	-25...90 ****)
Medium temperature [°C]	-25...90 ****)
Storage temperature [°C]	-25...90 ****)
Protection	IP 67 / IP 69K, III
Insulation resistance [MΩ]	> 100 (80 V DC)
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:20 g (10...2000 Hz)
Min. pressure cycles	50 million
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD noise immunity according to the automotive directive 95/54/EC 04/104EC / 05/83EC ISO 11452-2 100 V/m (400...2000 MHz) ISO 11452-4 100 mA (1...400 MHz) / severity level 4 ISO 7637-2 severity level 3 (severity level 4 upon request) radiation of interference according to CISPR 25 EN 61000-6-1 EN 61000-6-4
Housing materials	stainless steel 316L / 1.4404; TROGAMID
Materials (wetted parts)	stainless steel 316L / 1.4404; sealing: FPM (Viton)
Connection	M12 connector
Remarks	*) incl. drift due to tightening torque, zero and span error **) with temperature fluctuations < 10 K ***) in% of the span / 6 months ****) -40...100°C upon request e1 approval on request BFSL = Best Fit Straight Line / LS = Limit Value Setting

**Wiring**