

1: sealing NBR / DIN 3869-14
tightening torque 25 Nm



Product characteristics

Electronic pressure sensor

for mobile applications

e1 compliant

Process connection: G 1/4 A

Analogue output

Measuring range: 0...400 bar

Application

Application

Type of pressure: relative pressure
Liquids and gases

Pressure rating [bar]

600

Bursting pressure min. [bar]

1600

Medium temperature [°C]

-40...90

Electrical data

Electrical design

DC

Operating voltage [V]

8.5...36 DC

Insulation resistance [MΩ]

> 100 (80 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Output

Analogue output

Output function

4...20 mA analogue

Analogue output

4...20 mA

Max. load [Ω]

(U_b - 8.5 V) x 50; 775 at U_b = 24 V

Measuring / setting range

Measuring range [bar]

0...400

Accuracy / deviations

Accuracy / deviations

(in % of the span)

Characteristics deviation *)

< ± 1.0

Linearity

< ± 0.25 (BFSL) / < ± 0.5 (LS)

Hysteresis

< ± 0.2

Repeatability **)

< ± 0.1

Long-term stability ***)

< ± 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

< ± 0.1

Greatest TEMPCO of the span

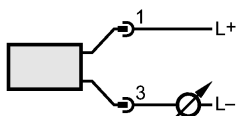
< ± 0.1

Reaction times

PC3550 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

Step response time analogue output [ms]	8
Environment	
Ambient temperature [°C]	-40...90
Storage temperature [°C]	-40...100
Protection	IP 67 / IP 69K
Tests / approvals	
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD according to the automotive directive 95/54/EC 04/104EC / 05/83EC noise immunity ISO 11452-2 100 V/m ISO 11452-4 100 mA / severity level 4 severity level 3 (severity level 4 upon request) ISO 7637-2 radiation of interference according to CISPR 25 EN 61000-6-1 EN 61000-6-4
Shock resistance	DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6: 20 g (10...2000 Hz)
Mechanical data	
Process connection	G ¼ A
Materials (wetted parts)	stainless steel 316L / 1.4404; sealing: NBR
Housing materials	stainless steel 316L / 1.4404; TROGAMID
Min. pressure cycles	50 million
Weight [kg]	0.078
Electrical connection	
Connection	M12 connector

Wiring



Remarks

Remarks

*) incl. drift due to tightening torque, zero and span error
 **) with temperature fluctuations < 10 K
 ***) in% of the span / 6 months
 e1 approval on request
 BFSL = Best Fit Straight Line / LS = Limit Value Setting

Pack quantity [piece]	1
-----------------------	---