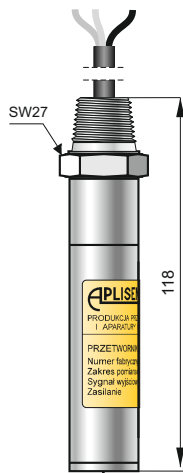


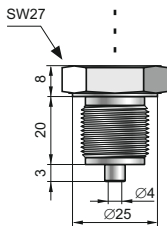
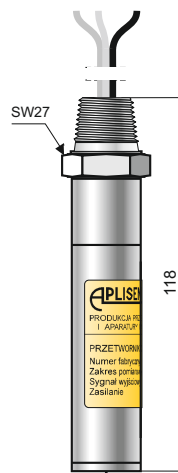
EXPLOSION PROOF PRESSURE TRANSMITTER PCE-28/EXD

- ✓ Any range from 0...25 mbar up to 0...1380 bar
- ✓ Marine certificate – DNV, BV
- ✓ 4 ÷ 20 mA two-wire output
- ✓ SIL 1 certificate
- ✓ Explosion proof certificate (ATEX, IECEx)
- ✓ NACE compatibility

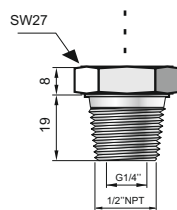
SGM (1/2"NPTM)
cable connection
IP68
(IP66 for gauge pressure <80bar)



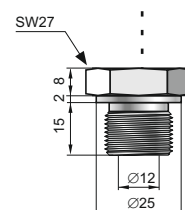
FL (1/2"NPTM)
flying leads
IP68
(IP66 for gauge pressure <80bar)



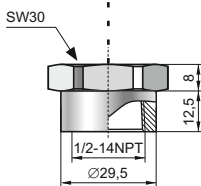
G1/2 type
G1/2", Ø4 hole



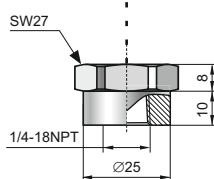
1/2"NPT type
1/2"NPT male +
internal thread G1/4"



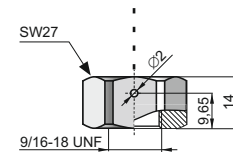
GP type
G1/2", Ø12 hole



1/2NPTF type
1/2-14 NPT female



1/4NPTF type
1/4-18 NPT female



Autoclave
type F-250-C
(9/16-18 UNF)

Application and construction

The PCE-28 pressure transmitter is applicable to the measurement of the pressure, underpressure and absolute pressure of gases, vapours and liquids. The active sensing element is a piezoresistant silicon sensor separated from the medium by a diaphragm and by specially selected type of manometric liquid. The electronics is placed in a casing with a degree of protection from IP 66 to IP 68.

Measurements under explosion hazard

ATEX Explosion Proof version is available for taking measurements in zones under explosion hazard.

Technical data

Any measuring range 0...25 mbar ÷ 0...1380 bar (over pressure, under pressure); 400 mbar ÷ 80 bar (absolute pressure)

	Measuring range				
	25 mbar	100 mbar	400 mbar	0...1 bar ÷ 160bar	0...160 bar ÷ 1380bar
Overpressure Limit (repeated, without hysteresis)	1 bar	1 bar	2,5 bar	4 x range	2 x range; max. 1600 bar
Damaging Overpressure	2 bar	2 bar	5 bar	8 x range; max. 2000 bar	
Accuracy	0,6%	0,3%	0,2% (0,16% - special version)		
Long term stability	0,6% / year	0,2% / year	0,1% / year		
Thermal error	Typically 0,5% / 10°C Max 0,6% / 10°C	Typically 0,3% / 10°C Max 0,4% / 10°C		Typically 0,2% / 10°C Max 0,3% / 10°C	

Hysteresis, repeatability	0,05%	Output signal	4...20 mA, two wire transmission
Response time	< 120 ms	Material of wetted parts	316Lss, Hastelloy C 276
Thermal compensation range	-10...80°C	Material of casing	304ss, 316Lss
Operating temperature range (ambient temp.)		Power supply	8...30 V DC Version Safety: 10,5...36 V DC
FL electrical connection	-40...80°C*	Error due to supply voltage changes	0,005%/V
SGM electrical connection	-40...65°C*	Load resistance	$R[\Omega] \leq \frac{U_{sup}[V] - 8V}{0,02A}$
* more information available in user's manual and certificate			
Medium temperature range	-40...130°C		

over 130°C – measurement with use an impulse line

CAUTION: the medium must not be allowed to freeze in the impulse line or close to the process connection of the transmitter

Ordering procedure

Model	Code	Description
PCE-28/Exd	/Exd.....	Pressure transmitter II 2G Ex db IIC T6/T5/T4 Gb II 2D Ex tb IIIC T85°C/T100°C/T120°C Db IECEX Ex db IIC T6/T5/T4 Gb Ex tb IIIC T85°C/T100°C/T120°C Db
Versions, certificates more than one option is available	/MR..... /0,16%..... /SIL 1..... /NACE.....	Marine certificate – DNV, BV Accuracy <0,16% (available for ranges >400mbar) SIL 1 certificate; only 4...20mA output NACE MR-01-75 certificate
Measuring range	/...+... [required units]	Measuring range
Casing, electrical connection	/SGM (1/2"NPTM)..... /FL (1/2"NPTM).....	316LSS housing, cable electrical connection (3 m of cable in standard) 316LSS housing, flying leads (2 m of flying leads in standard)
Process connection	/G1/2..... /GP..... /GP(Hastelloy)..... /1/2"NPTM..... /1/2"NPTF..... /1/4"NPTF..... /Autoclave.....	Thread G1/2" (male) with Ø4 hole, wetted parts SS316L Pressure limits: max. 1000bar Thread G1/2" (male) with Ø12 hole, wetted parts SS316L Pressure limits: min. 0,25bar / max. 350bar Thread G1/2" (male) with Ø12 hole, wetted parts Hastelloy C 276 Pressure limits: min. 0,25bar / max. 350bar Thread 1/2"NPT Male, wetted parts SS316L Pressure limits: max. 690bar Thread 1/2"NPT Female, wetted parts SS316L Pressure limits: min. 10bar / max. 690bar Thread 1/4"NPT Female, wetted parts SS316L Pressure limits: min. 10bar / max. 690bar Compatible with Autoclave type F-250-C Pressure limits: min. 400bar / max. 1380bar
Accessories	/MT.....	Stainless Steel Tag plate mounted on wire
Other specification	/.....	Description of required parameters