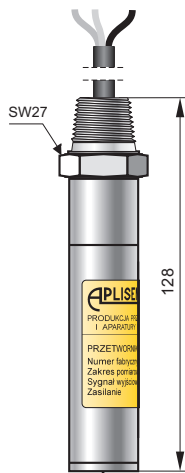


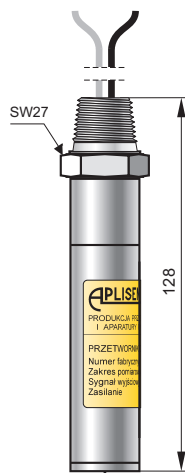
EXPLOSION PROOF PRESSURE TRANSMITTER PCE-28/EXD

- ✓ 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

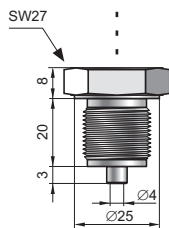
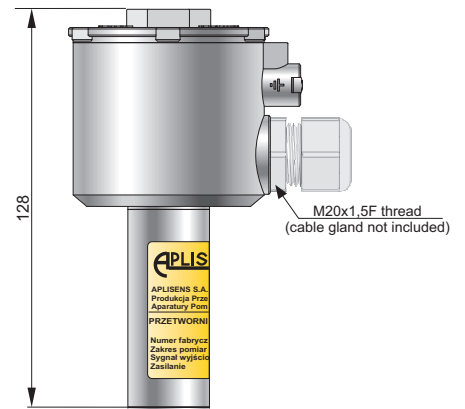
SGM (1/2"NPTM)
cable connection
IP68
(IP66 for gauge pressure <80bar)



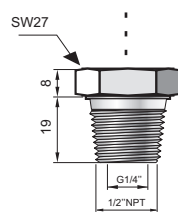
FL (1/2"NPTM)
flying leads
IP68
(IP66 for gauge pressure <80bar)



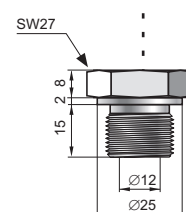
PZZ
IP66



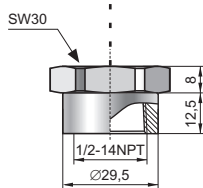
G1/2 type
G1/2", Ø4 hole



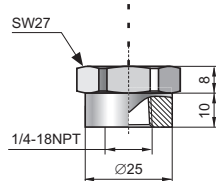
1/2"NPT type
1/2"NPT male +
internal thread G1/4"



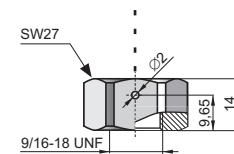
GP type
G1/2", Ø12 hole



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%
Response time < 120 ms
Thermal compensation range -10...80°C
Operating temperature range (ambient temp.)
 FL electrical connection -40...80°C*
 SGM electrical connection -40...65°C*
 * more information available in user's manual and certificate
Medium temperature range -40...130°C

Output signal 4...20 mA, two wire transmission
Material of wetted parts 316Lss, Hastelloy C 276
Material of casing 304ss, 316Lss
Power supply 8...30 V DC
 Version Safety: 10,5...36 V DC
Error due to supply voltage changes 0,005%/ V
Load resistance $R[\Omega] \leq \frac{U_{sup}[V] - 8V}{0,02A}$

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 I M2 Ex db I Mb (only for PZ2 casing) IECEx Ex db IIC T6/T5/T4 Gb Ex tb IIIC T85°C/T100°C/T120°C Db Ex db I Mb (only for PZ2 casing)
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).....	316LSS housing, cable electrical connection (3 m of cable in standard)
	/FL (1/2"NPTM).....	316LSS housing, flying leads (2 m of flying leads in standard)
Process connection	/PZ2.....	304SS housing, IP66, electrical connection M20x1,5F
	/G1/2.....	Thread G1/2" (male) with Ø4 hole, wetted parts SS316L Pressure limits: max. 1000bar
	/GP.....	Thread G1/2" (male) with Ø12 hole, wetted parts SS316L Pressure limits: min. 0,25bar / max. 350bar
	/GP(Hastelloy).....	Thread G1/2" (male) with Ø12 hole, wetted parts Hastelloy C 276 Pressure limits: min. 0,25bar / max. 350bar
	/1/2"NPTM.....	Thread 1/2"NPT Male, wetted parts SS316L Pressure limits: max. 690bar
	/1/2"NPTF.....	Thread 1/2"NPT Female, wetted parts SS316L Pressure limits: min. 10bar / max. 690bar
	/1/4"NPTF.....	Thread 1/4"NPT Female, wetted parts SS316L Pressure limits: min. 10bar / max. 690bar
Accessories	/MT.....	Compatible with Autovalve type F-250-C Pressure limits: min. 400bar / max. 1380bar Stainless Steel Tag plate mounted on wire
Other specification	/.....	Description of required parameters