



Special Features:

• Measuring ranges o 0...100 mbar up to 0...25 bar,

Robust construction

- o Wetted parts of stainless steel
- o Stainless steel case (316L)
- o Protection category IP 68
- o PUR cable (standard), FEP cable (optional)
- o resistant against ad blue o Micro PTFE coating (optional)

Programmable by PC programming

kit or service tool o Zero point (offset) o Range able 1:4 (beginning with 400mbar)

Output signals

o 4 ... 20 mA o 0 ... 10 V o RS 485 available in the future

Measuring system

o Sensor

stainless steel membrane poly-Si on SiO₂ (thin film resistors) silicon oil

o System filling

Flush diaphragm

• ATEX

CPS in some implementations is designed to sense pressure in facilities with gaseous and liquid media. They are usable in zone 0 and zone 1

Description:

A wide application field of level meter is guaranteed by the high accuracy and the rugged, compact design. The compensation and adjustment is carried out electronically. Thus the pressure transmitters have a very low total error and a very good long-term stability. The measuring cell is characterised by its high longterm resistance and long-term stability. With the precision of modern electronics, the measured data can be captured and spent very accurately. Even the programming of the pressure transducers by the user can be realised on a service tool or PC programming kit. The graduation of the measuring range and the zero point can be set up through the digital interface. Furthermore sensor data can be readout from the device. By using permanent magnets the adjustment of the zero point can easily and securely be done at any time.





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CPS							1			
Standard			00,1	00,16	00,25	00,4	00,6	01	01,6	
pressure ranges *) (bar)	02,5	04	06	010	016	025				
Over pressure (bar) *)	2 times - depending on pressure range									
Burst pressure (bar) *)	3 times - depending on pressure range									
Kind of pressure	gauge pressure (air tube with Goretex filter)									
Wetted parts :	Stainless steel 316L									
Weight (g)	under construction									
Supply voltage	1232 VDC; ATEX construction 20-27 VDC									
	420 mA, 2 wire $\mathbf{R}_{A} \le (U_{B}-12V) / 20mA$									
Output signals and max. load	ATEX: R_A≤ (U _B -20V) / 20mA min 100Ohm									
	010V, 3 wire (not ATEX compatible) $R_A > 10 \text{ k}\Omega$									
Adjustability of zero	Straightforward zero correction by using a magnet or via interface and									
	PC programming kit								and the second	
Accuracy **)	% FS ≤ \pm +/-0,5 (100400mbar)									
	\leq +/-0,35 (>400 mbar) (Including non-linearity, zero point and full scale error, hysteresis, non-linearity									
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Non-linearity ***)	™ FS ≤ 0,3 of nominal range EN 60/70-1									
Repeatability										
Long-term stability	1% FS $\leq 0,1$ 1-year stability at reference conditions									
Permissible temperatures				(-					
Media temperature	-10+70 °C (ATEX construction zone 0 max +60°C)									
Ambient temperature	-10+ /0°C (ATEX construction zone 0 max +60°C)									
Storage temperature	-20+ 100 ° C									
CE-conformitiy		_		1.544.6					14	
Pressure equipment	97/23/E0	G								
directive	0004/40	0/50								
EMC directive	2004/108/EG									
Wiring protection					2.50				634	
Overvoltage	32 VDC not for ATEX									
Short-circuit strength	Out+ / U _B - (for 1s)									
Reverse polarity	for power	for power supply								

*) Others on request **) Special custom design with optional better accuracy on request ***) integral linearity error (FS = Full Scale, BFSL = Best Fit Straight Line)



Connection diagram







Safety information

During installation, putting into service and operation of these pressure sensors, it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example, DIN VDE 0100). Errors excepted; subject to alterations in the sense of technical improvement.