Differential pressure transmitter

0 to 25 bar



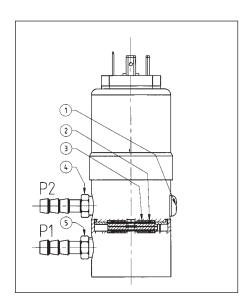




Technical overview

The differential pressure transmitter of type series 692 with proven, unique ceramic technology, features calibrated and amplified sensor signals which are available as standardised voltage or current outputs.

Various application-specific pressure and electrical connections and housing materials suitable for different media can be provided.



Legend to cross-section drawing

- 1 Fixing screw (do not loosen)
- 2 Seals
- 3 Ceramic element
- 4 P2 lower pressure, higher vacuum
- 5 P1 higher pressure, lower vacuum

The distinct advantages

- Very low temperature sensitivity
- High resistance to extreme temperatures
- No mechanical ageing
- No mechanical creepage
- Modular system and choice of materials to suit individual applications

Pressure ranges

Relative pressure, see order code selection table

Overload

see order code selection table

System pressure

(P1 and P2 simultaneously) 25 bar to pressure range 6 bar 50 bar on pressure range 10/16/25 bar

Rupture pressure

1.5 x system pressure

Accuracy (linear signals)

Total of linearity, hysteresis and repeatability

- < +/- 0.5 % fs at 2 x nominal pressure
- < +/- 0.8 % fs at 3 x nominal pressure
- < +/- 1.3 % fs at 5 x nominal pressure

Zero point residual voltage

- < 50 mV at 2 x nominal pressure
- < 75 mV at 3 x nominal pressure
- < 125 mV at 5 x nominal pressure

Materials in contact with the medium

Ceramic/Stainless steel 1.4305, PVDF

Sealing material:

option FPM, EPDM, NBR, MVQ acc. to order code selection table

Temperature influences (linear signals)

Medium and ambient temperature

-15 °C to +80 °C

TC zero point see order code selection table TC sensitivity (% fs/K)

- < +/- 0.015 at 2 x nominal pressure
- < +/- 0.022 at 3 x nominal pressure
- < +/- 0.037 at 5 x nominal pressure

Load cycle

< 50 Hz

Dynamic response

Suitable for static and dynamic measurements. Response time: < 50 ms

Weight

approx. 430 grams

Installation arrangement

Unrestricted

 Signal
 Power supply

 0 - 5 V
 11 - 33 VDC

 24 VAC +/- 15%

3-wire cable

0 – 10 V 18 – 33 VDC 24 VAC +/- 15%

3-wire cable

4 – 20 mA 11 – 33 VDC 2-wire cable

Short circuit-proof and protected against polarity reversal. Each connection against other with max. +/- supply voltage

Load

0 - 5 V > 10 k Ohm 0 - 10 V > 10 k Ohm

4-20 mA $\leq \frac{\text{supply voltage} - 11 \text{ V}}{0.02 \text{ A}} [Ohm]$

Current consumption

At maximum signal output:

0 - 5 V < 5 mA 0 - 10 V < 5 mA 4 - 20 mA < 25 mA

Electrical connections / Protection standard

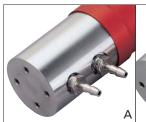
Cable 1.5 meters, IP 65, with cable gland (threaded)

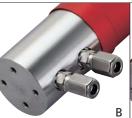
Rount plug connector DIN 41524, 3-pole, IP 65 Connector DIN EN 175301-803-A, IP 65

Calibration

Adjustable versions

(zero point/slope approx. +/- 10%)









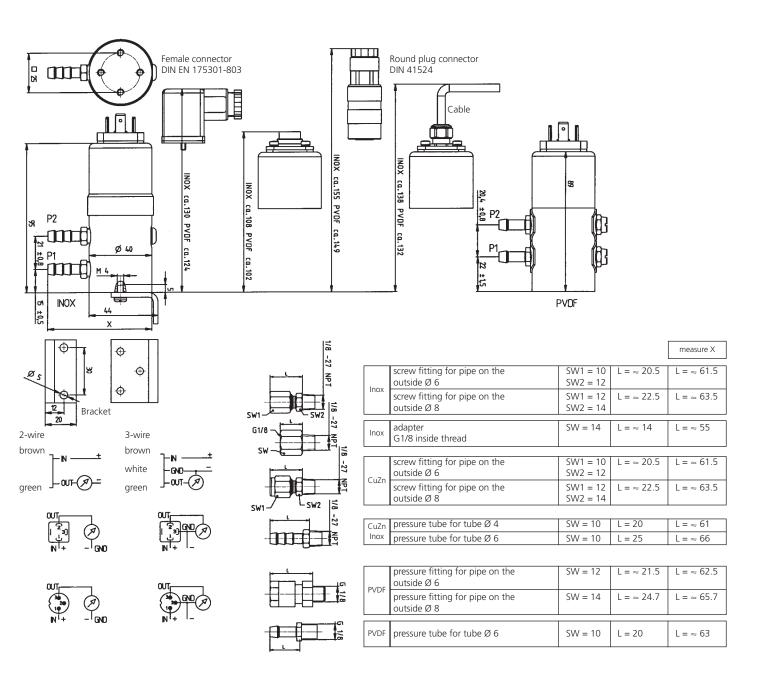
Versions

- A Pressure Tube Tip for pipe Ø 4 mm
- B Screw fitting for pipe Ø 6 mm
- C Screw fitting for pipe Ø 8 mm
- D Screw fitting PVDF for pipe

	n table			692.	9]							
Pressure ranges ¹	Overload on one si	de	TC0 (fs/K)									
	P 1	P2	0.40.0/									
) + 0.1	max. 0.6 bar	0.6 bar	< 0.12 %			_	0					_
) + 0.2	max. 1.2 bar	1.2 bar	< 0.12 %				2					
) + 0.2	max. 0.6 bar	0.6 bar	< 0.06 %				0					
) + 0.25	max. 1.2 bar	1.2 bar	< 0.1 %			_	3					
) + 0.25	max. 0.6 bar	0.6 bar	< 0.05 %				1					
) + 0.3	max. 0.6 bar	0.6 bar	< 0.04 %			0	1					
) + 0.4	max. 1.2 bar	1.2 bar	< 0.06 %				4					
) + 0.4	max. 2 bar	2 bar	< 0.1 %				5					
) + 0.5	max. 1.2 bar	1.2 bar	< 0.05 %				6					
) + 0.5	max. 3 bar	3 bar	< 0.12 %				7					
) + 0.6	max. 1.2 bar	1.2 bar	< 0.04 %				8					
) + 0.6	max. 3 bar	3 bar	< 0.1 %				9					
) + 1	max. 2 bar	2 bar	< 0.04 %			1	1					
) + 1	max. 5 bar	5 bar	< 0.1 %			1	2					
) + 1.6	max. 3.2 bar	3.2 bar	< 0.04 %			1	3					
) + 1.6	max. 12 bar	12 bar	< 0.15 %			1	4					
1 + 2.5	max. 5 bar	5 bar	< 0.04 %			1	5					
+ 2.5	max. 12 bar	12 bar	< 0.1 %				6					
+ 4	max. 8 bar	8 bar	< 0.04 %			1	7					
1 + 4	max. 12 bar	12 bar	< 0.06 %				8					
) + 6	max. 12 bar	12 bar	< 0.04 %				9					
) + 10	max. 20 bar	12 bar	< 0.04 %			_	0					
) +16	max. 32 bar	12 bar	< 0.04 %			3	1					\rightarrow
+25	max. 50 bar	12 bar	< 0.04 %				2					\rightarrow
+25 ▲ Full scale signal at		ız vai	< U.U4 ⁷ /0			ر	_					-
Full scale signal at	triese pressures											
ealing materials	FPM Fluoro-elast	omer						0				
ealing materials	EPDM Ethylene pro							1				
							_	2				
	NBR Butadiene A MVQ Silicone poly							3				
	WWQ Silicone por	ymei						ر				
Calibration	factory calibrated								0			
edibration		vith adjustable zero point and slop	Δ						1			
	ractory cambrated, v	vitir adjustable zero politi and slop	<u> </u>				-		-			
Outputs and power supply	0 51/ 1								-	_		
		1 0 22 0 1/06/24 1/06 1/11/15%	3 wire cable									
and and arrest confident		1.0 – 33.0 VDC/24 VAC +/- 15%	3-wire cable			_				0		
	0 – 10 V 1	8.0 – 33.0 VDC/24 VAC +/- 15%	3-wire cable							1		
	0 – 10 V 1 4 – 20 mA 1		3-wire cable 2-wire cable							_	0	
	0 – 10 V 1 4 – 20 mA 1 Cable 1.5 m, Pg 7	8.0 – 33.0 VDC/24 VAC +/- 15% 1.0 – 33.0 VDC	3-wire cable 2-wire cable IP 65							1	0	
	0 – 10 V 1 4 – 20 mA 1 Cable 1.5 m, Pg 7 Connector	8.0 – 33.0 VDC/24 VAC +/- 15% 1.0 – 33.0 VDC DIN EN 175301-803-A	3-wire cable 2-wire cable IP 65 IP 65							1	1	
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	0 – 10 V 1 4 – 20 mA 1 Cable 1.5 m, Pg 7 Connector Round plug connection	8.0 – 33.0 VDC/24 VAC +/- 15% 1.0 – 33.0 VDC DIN EN 175301-803-A tor DIN 41524 3-pole s 1/8-27 NPT / PVDF G 1/8	3-wire cable 2-wire cable IP 65 IP 65 IP 65	able version						1	1	0
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ressure connections ase in contact with medium	0 – 10 V 1 4 – 20 mA 1 Cable 1.5 m, Pg 7 Connector Round plug connector without connection Pressure-tube tip Pressure-tube tip Pressure-tube tip Screw fitting Screw fitting Screw fitting Screw fitting Screw fitting Outside thread Adapter inside Adapter outside Stainless steel PVDF all ranges Stainless steel with Stainless steel, free Stainless steel with free of oil and greas	8.0 – 33.0 VDC/24 VAC +/- 15% 1.0 – 33.0 VDC DIN EN 175301-803-A tor DIN 41524 3-pole s 1/8-27 NPT / PVDF G 1/8 CuZn vni CuZn vni Inox 1.4305 CuZn vni Inox 1.4305 PVDF PVDF PVDF PVDF 7/16-20 UNF (CuZn vni) G 1/8 Inox G 1/8 with union nut (CuZn) up to 6 bar max., overload and syst pressure tip orifice of oil and grease (only seal FPM, no pressure tip orifice see (only seal FPM, no pressure tip orifice see (only seal FPM, no pressure tip orifice	3-wire cable 2-wire cable IP 65 IP 65 IP 65 Only adjust for tube for tube for tube for pipe	Ø 4 mm Ø 6 mm Ø 6 mm Ø 6 mm Ø 8 mm Ø 8 mm Ø 6 mm Ø 8 mm Ø 8 mm Ø 8 mm				1	0	3	5 5	1 2 3 4 5 6 7 8 9 A B C

- Other pressure ranges on request
 Without female connector

Dimensions in mm Electrical connections



Electromagnetic compatibility: CE conformity (EMC) by application of harmonized standards: Interference stability EN 61000-6-2 and EN 61000-6-3									
Interference stability	Test standard	Effect							
Electrostatic discharge (ESD)	EN 61000-4-2	8 kV air, 4 kV contact	no effect						
High-frequency electromagnetic radiation (HF)	EN 61000-4-3	10 V/m, 80 1000 Mz	no effect						
Conducted HF interference	EN 61000-4-6	10 V, 0.15 80 MHz	no effect						
Fast transients (burst)	EN 61000-4-4	2 kV	no effect						
Surge	EN 61000-4-5	max. tolerable cable length 10 m	no test						
Magnetic fields	EN 61000-4-8	30 A/m, 50 Hz	no effect						
Interference emit	Test standard		<u>Effect</u>						
Conducted interference	EN 55022 (CISPR 22)	0.15 30 MHz	no emission						
Radiation from housing	301000 MHz, 10 m		No emission						

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