

Relative and differential pressure transmitter type 692

Pressure range
0 ... 0.1 – 25 bar

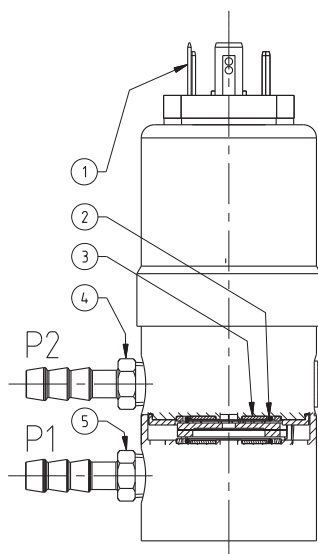


Type 692 pressure transmitters have a unique, well proven ceramic technology. There are variety of pressure and electrical connections available, together with several standardised output signals. The wide variety of options makes these transmitters ideal for applications across a broad spectrum of industries.

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

Technical overview

Pressure range				
Relative and differential		0 ... 0.1 – 25 bar		
Operating conditions				
Medium		Liquids and neutral gases		
Temperature		Medium / ambient	-15 ... +85 °C	
		Storage	-40 ... +85 °C	
Tolerable overload on one side		See order code selection table		
System pressure		≤ 6 bar	PVDF	12 bar
		≥ 10 bar	Stainless steel 1.4305 / AISI 303	25 bar
Rupture pressure		50 bar		
		1.5x system pressure		
Materials				
Case		Stainless steel 1.4305 / AISI 303		
		Pressure connection	Stainless steel 1.4305 / AISI 303, PVDF, CuZn nickel plated	
Materials in contact with the medium		Sensor	ceramic Al ₂ O ₃ (96%)	
		Sealing material	FPM, EPDM, NBR, MVQ	
Electrical overview				
2 wire	Output 4 ... 20 mA	Power supply 11 ... 33 VDC	Load < $\frac{\text{supply voltage} - 11 \text{ V}}{0.02 \text{ A}}$ [Ohm]	Current consumption (at nominal pressure) < 20 mA
	0 ... 5 V	11 ... 33 VDC / 24 VAC ±15%	>10 kOhm	< 5 mA
3 wire	0 ... 10 V	18 ... 33 VDC / 24 VAC ±15%	>10 kOhm	< 5 mA
	ratiom. 10 ... 90%	5 VDC ±5%	>10 kOhm	< 5 mA
Polarity reversal protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		
Dynamic response				
Response time		< 5 ms		
Load cycle		< 50 Hz		
Protection standard				
IP 65				
Electrical connection				
Connector DIN EN 175301-803-A				
Connector DIN EN 60130-9				
Cable 1.5 m		PG7		
Pressure connection				
Pressure tube tip		Ø 4 mm		
		Ø 6 mm		
Pipe fitting		Ø 6 mm		
		Ø 8 mm		
Outside thread		1/16"-20 UNF		
		G 1/8"		
Inside thread		1/4"-27 NPT		
		G 1/8"		
Mounting instruction				
Installation arrangement		Unrestricted		
Mounting		Mounting bracket		
Tests / Admissions				
Electromagnetic compatibility		CE conformity acc. EN 61326-2-3		
Weight				
~ 430 g				
Packaging				
Single packaging in cardboard		accessories included		



Legend to cross-section drawing

- 1 Electrical connection
- 2 Seals
- 3 Ceramic element
- 4 P2 Pressure connection (lower pressure)
- 5 P1 Pressure connection (higher pressure)

Accuracy

Parameter	Unit	Versions with overload on one side ≤ 2x nominal pressure	Versions with overload on one side ≤ 3x nominal pressure	Versions with overload on one side ≤ 7.5x nominal pressure
Tolerance zero point	max. % fs	± 0.4	± 0.75	± 1.25
Tolerance full scale	max. % fs	± 0.4	± 0.75	± 1.25
Resolution	% fs	0.1	0.15	0.25
Total of linearity, hysteresis and repeatability	max. % fs	± 0.5	± 0.75	± 1.25
Long term stability acc. to DIN EN 60770	% fs	± 0.5	± 0.5	± 0.5
TC zero point ¹⁾	max. % fs/10K	See order code selection table	See order code selection table	See order code selection table
TC sensitivity ¹⁾	max. % fs/10K	± 0.15	± 0.23	± 0.38

Test conditions: 25 °C, 45% RH, Power supply 24 VDC
TC z.p. / TC s. -15 ... +80 °C

Order code selection table						1	2	3	4	5	6	7	8	9	10			
						692.	X	X	X	X	X	X	X	X	X			
Pressure range ²⁾	Tolerable overload on one side		TC z.p. (fs/10K)															
	P1	P2																
	0 ... 0.1 bar	max. 0.6 bar (6 x Nominal pressure)	0.6 bar	± 1.2 %	9	0	0											
	0 ... 0.2 bar	max. 1.2 bar (6 x Nominal pressure)	1.2 bar	± 1.2 %	9	0	2											
	0 ... 0.2 bar	max. 0.6 bar (3 x Nominal pressure)	0.6 bar	± 0.6 %	9	4	0											
	0 ... 0.25 bar	max. 1.2 bar (4.8 x Nominal pressure)	1.2 bar	± 1.0 %	9	0	3											
	0 ... 0.25 bar	max. 0.6 bar (2.4 x Nominal pressure)	0.6 bar	± 0.5 %	9	4	1											
	0 ... 0.3 bar	max. 0.6 bar (2 x Nominal pressure)	0.6 bar	± 0.4 %	9	0	1											
	0 ... 0.4 bar	max. 1.2 bar (3 x Nominal pressure)	1.2 bar	± 0.6 %	9	0	4											
	0 ... 0.4 bar	max. 2 bar (5 x Nominal pressure)	2 bar	± 1.0 %	9	0	5											
	0 ... 0.5 bar	max. 1.2 bar (2.4 x Nominal pressure)	1.2 bar	± 0.5 %	9	0	6											
	0 ... 0.5 bar	max. 3 bar (6 x Nominal pressure)	3 bar	± 0.8 %	9	0	7											
	0 ... 0.6 bar	max. 1.2 bar (2 x Nominal pressure)	1.2 bar	± 0.4 %	9	0	8											
	0 ... 0.6 bar	max. 3 bar (5 x Nominal pressure)	3 bar	± 0.7 %	9	0	9											
	0 ... 1 bar	max. 2 bar (2 x Nominal pressure)	2 bar	± 0.4 %	9	1	1											
	0 ... 1 bar	max. 5 bar (5 x Nominal pressure)	5 bar	± 1.0 %	9	1	2											
	0 ... 1.6 bar	max. 3.2 bar (2 x Nominal pressure)	3.2 bar	± 0.4 %	9	1	3											
	0 ... 1.6 bar	max. 12 bar (7.5 x Nominal pressure)	12 bar	± 1.0 %	9	1	4											
	0 ... 2.5 bar	max. 5 bar (2 x Nominal pressure)	5 bar	± 0.4 %	9	1	5											
	0 ... 2.5 bar	max. 12 bar (4.8 x Nominal pressure)	12 bar	± 0.6 %	9	1	6											
0 ... 4 bar	max. 8 bar (2 x Nominal pressure)	8 bar	± 0.4 %	9	1	7												
0 ... 4 bar	max. 12 bar (3 x Nominal pressure)	12 bar	± 0.5 %	9	1	8												
0 ... 6 bar	max. 12 bar (2 x Nominal pressure)	12 bar	± 0.4 %	9	1	9												
0 ... 10 bar	max. 20 bar (2 x Nominal pressure)	20 bar	± 0.4 %	9	3	0								1,4				
0 ... 16 bar	max. 32 bar (2 x Nominal pressure)	32 bar	± 0.4 %	9	3	1								1,4				
0 ... 25 bar	max. 50 bar (2 x Nominal pressure)	50 bar	± 0.4 %	9	3	2								1,4				
▲ Fullscale signal at these pressures																		
Sealing material	FPM	Fluoro elastomer							0									
	EPDM	Ethylene propylene							1									
	NBR	Butadiene Acrylonitrile							2									
	MVQ	Silicone polymer							3									
Adjustment	Factory								0									
	0 ... 5 V	11 ... 33 VDC / 24 VAC ±15%								0								
Output / power supply	0 ... 10 V	18 ... 33 VDC / 24 VAC ±15%								1								
	4 ... 20 mA	11 ... 33 VDC								7								
	ration. 10 ... 90%	5 VDC ±5%								9								
Electrical connection	Cable 1.5 m, PG7													0				
	Connector ³⁾	DIN EN 175301-803-A DIN EN 60130-9												1				
Pressure connection	Inside thread	Stainless steel 1/8"-27 NPT or PVDF G 1/8"													0			
		CuZn nickel plated	for tube inside Ø 4 mm												1	1,4		
	Hose connection	Stainless steel 1.4571 / AISI 316Ti	for tube inside Ø 4 mm													E	1,4	
		CuZn nickel plated	for tube inside Ø 6 mm													2	1,4	
		PVDF	for tube inside Ø 6 mm													3	2	
		Stainless steel 1.4571 / AISI 316Ti	for tube inside Ø 6 mm														D	1,4
	Pipe fitting	CuZn nickel plated	for pipe outside Ø 6 mm														4	1,4
		Stainless steel 1.4305 / AISI 303	for pipe outside Ø 6 mm														5	1,4
		PVDF	for pipe outside Ø 6 mm														8	2
		CuZn nickel plated	for pipe outside Ø 8 mm														6	1,4
Outside thread	Stainless steel 1.4305 / AISI 303	for pipe outside Ø 8 mm														7	1,4	
	PVDF	for pipe outside Ø 8 mm														9	2	
Adapter	Stainless steel 1.4305 / AISI 303															A	1,4	
	G 1/8" Stainless steel 1.4305 / AISI 303															B	1,4	
	G 1/8" CuZn nickel plated with union nut															C	1,4	
Case	Stainless steel 1.4305 / AISI 303																1	
	PVDF to 6 bar max.																2	
	Stainless steel with pressure tip orifice																	4
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 8bar/OUT1...6V)														W			

Accessories

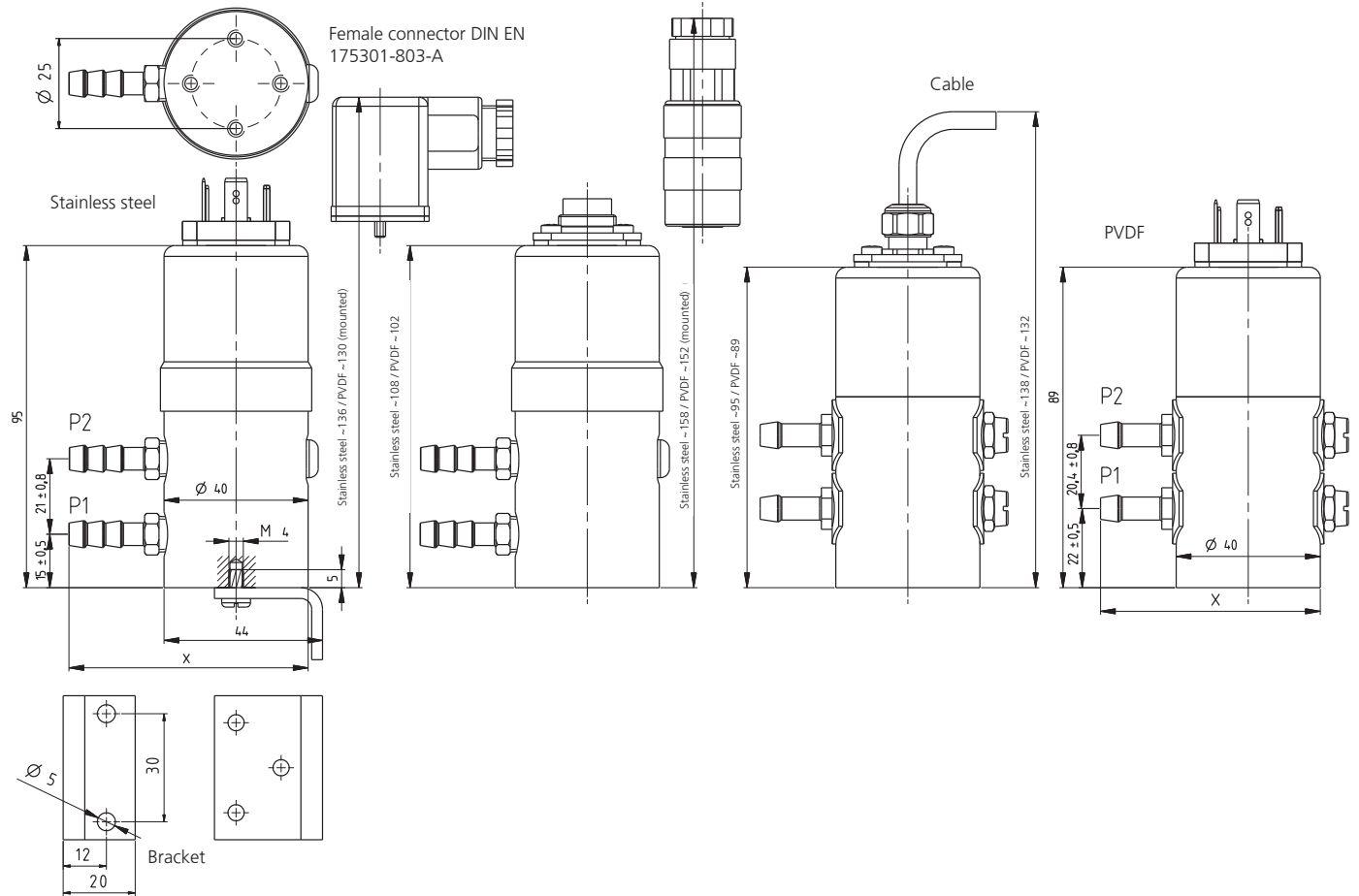
	Order number
Female connector DIN EN 175301-803-A with seal	103510
Female connector DIN EN 60130-9	103524
Mounting bracket incl. screws	101999
Calibration certificate	104551

¹⁾ TC = Temperature coefficient

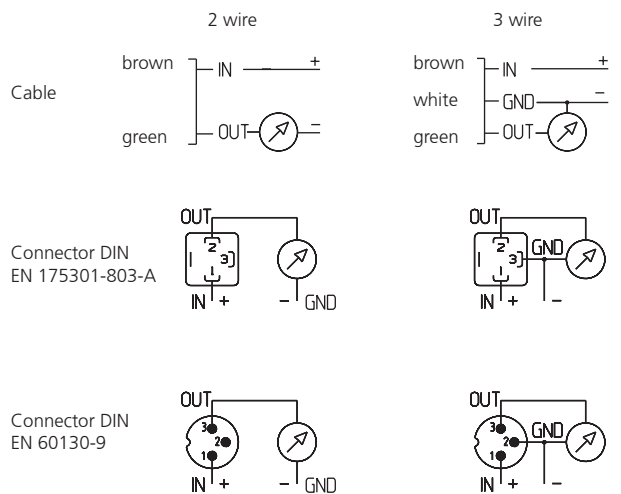
²⁾ Other pressure range on request

³⁾ Delivery without female connector

Female Connector
DIN EN 60130-9



	Stainless steel	Screw fitting for pipe outside Ø 6	L~24	a=10
	1.4305		X~65	b=12
	Stainless steel	Screw fitting for pipe outside Ø 8	L~26	a=12
	AISI 303		X~67	b=14
	Stainless Steel	Inside thread G 1/8	L~12	a=14
	1.4305		X~53	
	CuZn nickel plated	Screw fitting for pipe outside Ø 6	L~24	a=10
		Screw fitting for pipe outside Ø 8	L~25	a=12
	CuZn nickel plated	Screw fitting for pipe outside Ø 8	X~66	b=14
	CuZn nickel plated	Hose connection for tube Ø 4	L~20	a=10
	Stainless steel		X~61	
	1.4571	Hose connection for tube Ø 6	L~25	a=10
	AISI 316Ti		X~66	
	CuZn nickel plated	Outside thread G 1/8	L~20	a=10
			X~61	b=12
	CuZn nickel plated	Outside thread 7/16-20 UNF	L~18	a=14
			X~59	
	PVDF	Screw fitting for pipe Ø 6	L~20	a=12
		Screw fitting for pipe Ø 8	L~23	a=14
	PVDF	Screw fitting for pipe Ø 8	X~64	
	PVDF	Hose connection for tube Ø 6	L~20	a=10
			X~61	



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本 社：〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431 / FAX: (03) 3695-5698
大阪支店：〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL: (06) 6361-4831 / FAX: (06) 6361-9360
e-mail: sales-tokyo@krone.co.jp URL: <https://www.krone.co.jp>