



Differential pressure transmitter

Huba Control

Relative and differential pressure transmitter

Type 692



The Type 692 pressure transmitters feature the unique, well proven ceramic technology. They offer a range of pressure and electrical connections, coupled with various standardised output signals.

This wide variety of options make these transmitters ideally suited for applications in a wide range of industries.

Pressure range
0 ... 0.1 – 25 bar

- + Very low temperature sensitivity
- + High temperature resistance
- + No mechanical creep
- + Modular system and choice of materials to suit individual applications

Technical overview

Pressure range

Relative and differential	0 ... 0.1 – 25 bar
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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
	≥ 10 bar	Stainless steel 1.4305 / AISI 303
Rupture pressure		12 bar
		25 bar
		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

	Output	Power supply	Load	Current consumption (at nominal pressure)
2 wire	4 ... 20 mA	11 ... 33 VDC	$\frac{\text{supply voltage} - 11V}{0.02A}$ [Ohm]	< 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

Electrical connection

Connector DIN EN 175301-803-A
Connector DIN EN 60130-9
Cable 1.5 m (PG7)

Protection standard

IP 65
IP 65
IP 65

Pressure connection

Pressure tube tip	Ø 4 mm
	Ø 6 mm
Pipe fitting	Ø 6 mm
	Ø 8 mm
Outside thread	7/16"-20 UNF
	G 1/8
Inside thread	1/8"-27 NPT
	G 1/8

Mounting instruction

Installation arrangement	Unrestricted
Mounting	Mounting bracket

Tests / Admissions

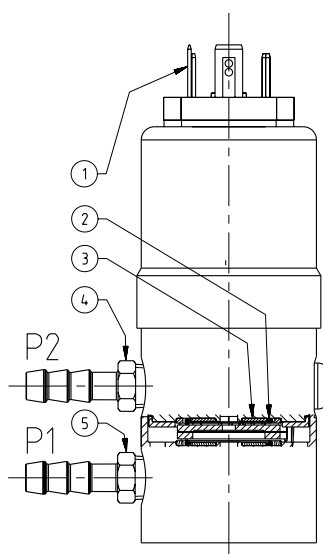
Electromagnetic compatibility	CE conformity acc. EN 61326-2-3
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Weight

~ 430 g

Packaging

Single packaging in cardboard	accessories included
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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

692. X X X X X X X X X X X

	Tolerable overload on one side				TC z.p. (fs/10K)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Accessories (supplied loose)

Order number

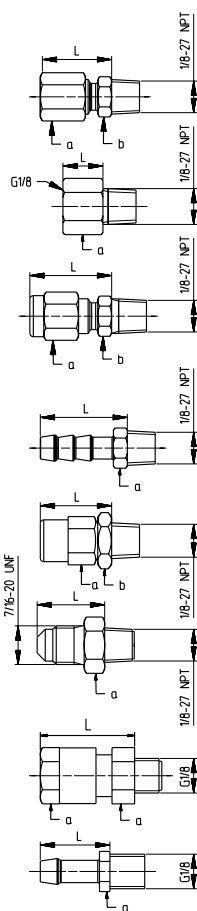
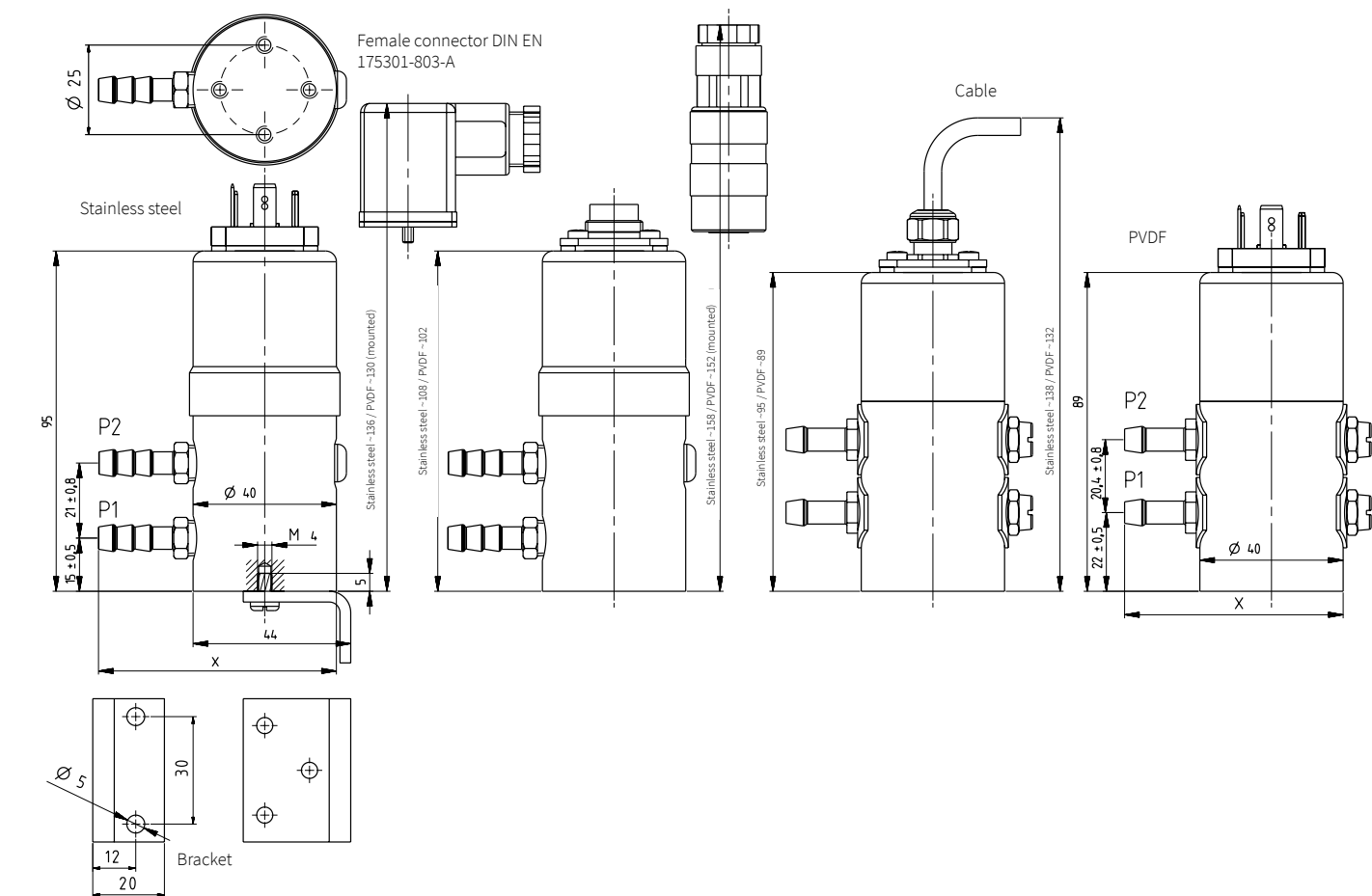
Female connector DIN EN 175301-803-A with seal	IP 65, when installed and screwed	103510
Female connector DIN EN 60130-9	IP 65, when installed and screwed	103524
Mounting bracket incl. screws		101999
Calibration certificate		104551

¹⁾ TC = Temperature coefficient

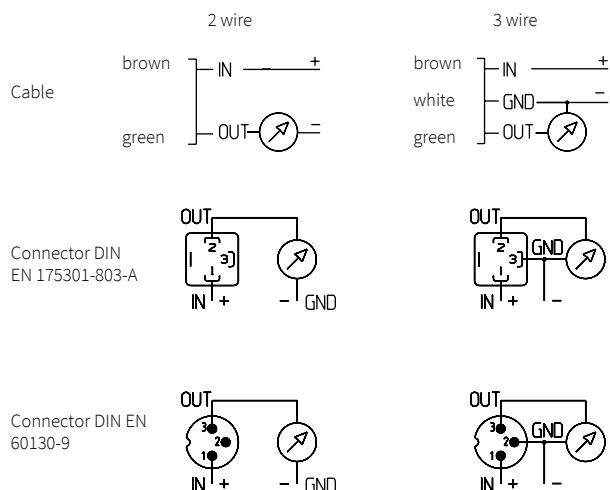
²⁾ Other pressure range on request

³⁾ Delivery without female connector

Female Connector
DIN EN 60130-9



Stainless steel 1.4305 AISI 303	Screw fitting for pipe outside Ø 6	L~24 X~65	a=10 b=12
	Screw fitting for pipe outside Ø 8	L~26 X~67	a=12 b=14
Stainless Steel 1.4305 AISI 303	Inside thread G ½	L~12 X~53	a=1
CuZn nickel plated	Screw fitting for pipe outside Ø 6	L~24 X~65	a=10 b=12
	Screw fitting for pipe outside Ø 8	L~25 X~66	a=12 b=14
CuZn nickel plated Stainless steel 1.4571 AISI 316Ti	Hose connection for tube Ø 4	L~20 X~61	a=10
	Hose connection for tube Ø 6	L~25 X~66	a=10
CuZn nickel plated	Outside thread G ½	L~20 X~61	a=10 b=12
	Outside thread 7/16"-20 UNF	L~18 X~59	a=14
PVDF	Screw fitting for pipe Ø 6	L~20 X~61	a=12
	Screw fitting for pipe Ø 8	L~23 X~64	a=14
PVDF	Hose connection for tube Ø 6	L~20 X~61	a=10



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