

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 | 25 bar |
| Rupture pressure | ≥ 10 bar | 50 bar |
| | | 1.5x fs |

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 | $\frac{\text{supply voltage} - 11 \text{ V}}{0.02 \text{ A}}$ [Ohm] | < 20 mA |
| 3 wire | 0 ... 5 V | 11 ... 33 VDC | > 10 kOhm | < 5 mA |
| | 0 ... 10 V | 18 ... 33 VDC | > 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 |
| Screw 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

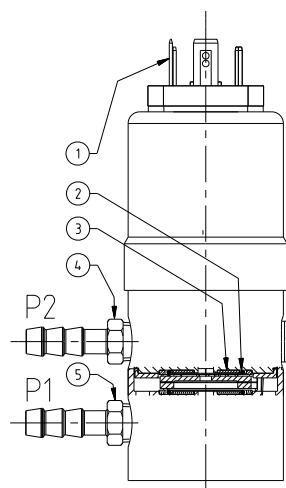
| | |
|-------------------------------|---------------------------------|
| Electromagnetic compatibility | CE conformity acc. EN 61326-2-3 |
|-------------------------------|---------------------------------|

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 | 692.9 | X | X | X | X | X | X | X | X | X |
|----------------------------|-------|---|---|---|---|---|---|---|---|---|

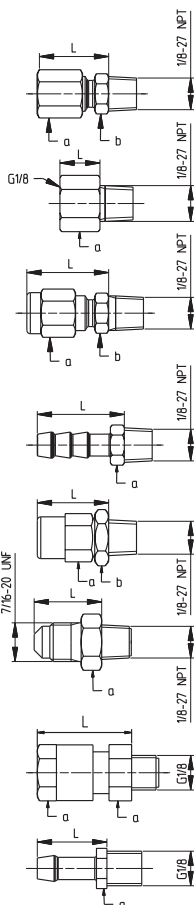
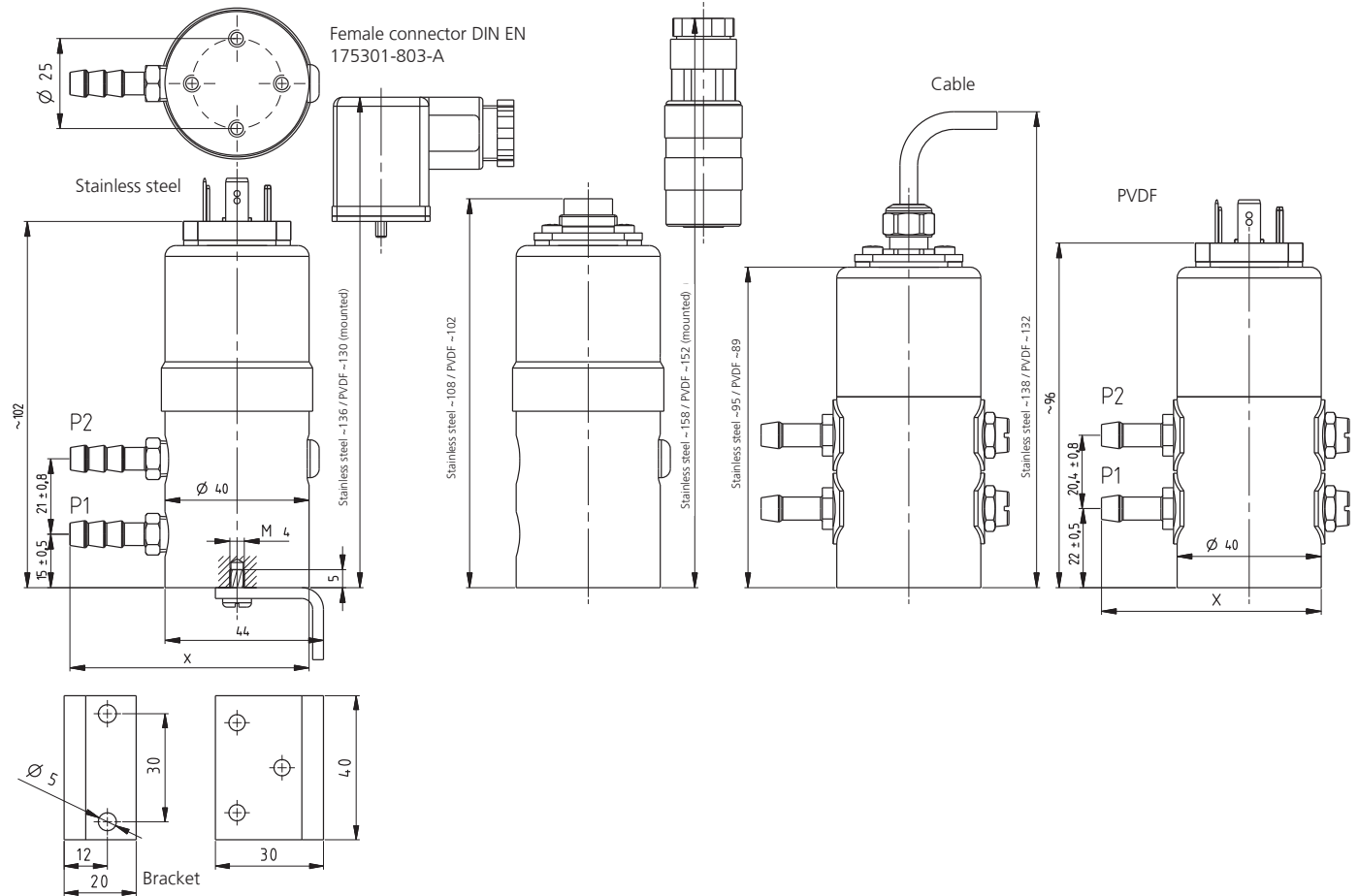
[illegible]

Accessories

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

²⁾ Delivery without female connector

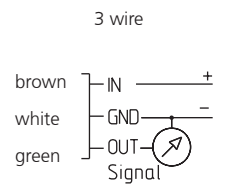
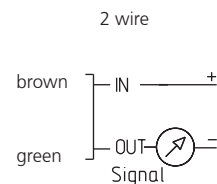
Female Connector
DIN EN 60130-9



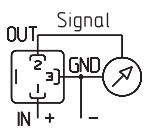
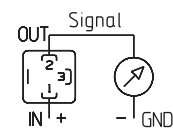
| | | | |
|--|------------------------------------|--------------|--------------|
| Stainless steel 1.4305 AISI 303 | Screw fitting for pipe outside Ø 6 | L~24 X~65 | a=10 b=12 |
| | Screw fitting for pipe outside Ø 8 | L~26 X~67 | a=12 b=14 |
| Stainless Steel 1.4305 AISI 303 | Inside thread G 1/4 | L~12 X~53 | a=14 |
| 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 1/4 | 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 |



Cable



Connector DIN
EN 175301-803-A



Connector DIN
EN 60130-9

