





Relative and differential pressure transmitter

Туре 699

The type 699 transmitters are available in switchable pressure ranges and with or without display. The full-version includes customer specific adjustment possibilities. Especially developed sensors for each pressure range ensure accurate long term stable measurement and the large variety of options provide the perfect platform for use in air conditioning technology as well as for fine measurement in the industrial and medical environment.

Pressure range -1 ... 1 mbar / 0 ... 0.3 – 50 mbar

- + Available with or without LCD display
- + Adjustable measurement range
- + Switchable output signals
- + Switchable response curve (linear or root-extracted)
- + Resettable Zero Point (Reset button)
- + Full scale adjustable
- + Attractive price / performance ratio
- + Application at over and low pressure range possible
- + Fast, easy mounting. Housing incorporates integral bracket for wall or ceiling mounting

Technical overview

Pressure range Relative and differential

| prating vol 1 and no field game. All and fiel | | | | | |
|---|----------------|---------------------------|---|---|---|
| emperature Modure / ambient 0 | Operating con | nditions | | | |
| approprive Borneg | /ledium | | | | |
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| Application at over pressure range | emperature | | | | -10 + /0 °C |
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| operable overload on one side | | | Application at over pressure range | | |
| Application at under pressure range a mbar P1 = 4 mbar P2 | olerable overl | load on one side | | | |
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| segar | | | | 10 0 | 1.5 × 0 × 10 × 0 |
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| acting Polycarbanet PC ethics overview | | | | | |
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| Output # Power supply # Lead Current consumption # 0 - 10 V 135.33VC / 24 VK - 199 + 01 k0hm - 10 m A 0 - 20 mA 135.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 135.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 135.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 155.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 153.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 153.33VC / 24 VK - 199 + 50 k0hm - 30 m A 4 - 20 mA 53.33VC / 24 VK - 199 + 50 k0hm - 30 m A 5 mot circuit poof and potected against polarity reversal. Each connection is protected against crossover up to max supply voltage. - 20 m S signes time - 20 m S - 20 m S otclost standard - 10 Hz - 10 Hz otclost standard - 10 HZ - 10 HZ otclost standard - 10 HZ - 20 m S otclost standard - 10 HZ - 20 m S otclost standard - 10 HZ - 20 m S otclost standard - 10 HZ - 20 m S | Jusing | | | | Polycardonal PC |
| vinc 420 mA 8.033/0C | ectrical over | | | | |
| 010V 13533VDC/24 VA.151% > 10 mA 420 mA 1355.33VDC/24 VA.151% > 500 Dhm > 30 mA 420 mA 1355.33VDC/24 VA.151% > 500 Dhm > 30 mA 10 mainter 533VDC/24 VA.151% > 500 Dhm > 30 mA 10 mainter 533VDC/24 VA.151% > 500 Dhm > 30 mA 10 mainter 533VDC/24 VA.151% > 500 Dhm > 00 mA 10 mainter 533VDC/24 VA.151% > 500 Dhm > 00 mA 10 mainter Stot circuit proof and protected agains polarity reversal. Each connection is protected agains cosser: up to max supply voltage. > 20 mS 10 mainter Stot circuit proof and protected agains polarity reversal. Each connection is protected agains cosser: up to max supply voltage. > 20 mS 10 foot 10 mainter 10 mS > 00 mS 10 foot 10 foot 10 mS 10 mS 10 footply 20 mA 20 mA 20 mS 10 footply 20 mS 20 mS 20 mS 10 footply 20 mS 20 mS 20 mS 10 footply 20 mS 20 mS | | Output 1) | | Load | |
| 020 mA 13.533 VDC / 24 VAC 1559, < 500 D lm | vire | | | | < 20 mA |
| 420 mA 13233 VDC / 24 VAC 115% < 500 0 hm | | 010 V | | | |
| 0 2000 1000 2000 cr 5.1 33 VDC / 24 VMC 110% > 100 VDM fer Short circuit proof and protected against polarity revenal. Each connection is protected against cossover up to max supply voltage. anamic response 9000 generating in the second of the s | | | | | |
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| antly reversal protection Shot circuit proof and protected against polarity revenal. Each connection is protected against crossover up to max supply voltage. namic response < 20 ms | | 0 5 V 3) | 6.5 33 VDC / 24 VAC ±15% > 10 kOhm | | |
| main cesponse sponse time < 20 ms sponse time < 10 Hz | | | | | |
| spanse time < 20 ms | larity reversa | al protection | Short circuit proof and protected against polarity reve | ersal. Each connection is protected against | t crossover up to max. supply voltage. |
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| Mounting bracket (integrated in case) ests / Admissions - | - 11 - c1 | | | Recommendation: Vertical (Fi | actory calibration) with pressure connections downwards |
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| ackaging ingle packaging in cardboard | | 1 | | | |
| ingle packaging in cardboard | | | | | 0 |
| | | | | | |
| ultiple packaging 20 / 40 / 120 | | | | | |
| | ultiple packa | ging | | | 20 / 40 / 120 |

¹⁾ Adjustable by DIP-Switch

²⁾ At nominal pressure

³⁾ Additional adjustable by software (with LCD-Display only)

| Parameter | | Unit | ±0.5 mbar | 0 1 mbar | 0 3 mbar | 0 5 mbar | 0 10 - 50 mbar |
|--|------|----------|-----------|----------|----------|----------|----------------|
| Tolerance zero point | max. | % fs | ±1.0 | ±1.0 | ±0.7 | ±0.7 | ±0.7 |
| Tolerance zero full scale | max. | % fs | ±1.0 | ±1.0 | ±0.7 | ±0.7 | ±0.7 |
| Resolution | | % fs | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| Total of linearity, hysteresis and repeatability | max. | % fs | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±0.6 |
| Long therm stability acc. to DIN EN 60770 | | % fs | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |
| TC zero point ¹⁾ | typ. | % fs/10K | ±0.2 | ±0.2 | ±0.2 | ±0.1 | ±0.1 |
| TC zero point ¹⁾ | max. | % fs/10K | ±1.0 | ±1.0 | ±0.5 | ±0.4 | ±0.4 |
| TC sensitivity ¹⁾ typ | | % fs/10K | ±0.3 | ±0.3 | ±0.2 | ±0.1 | ±0.1 |
| TC sensitivity 1) | max. | % fs/10K | ±0.6 | ±0.6 | ±0.5 | ±0.5 | ±0.2 |

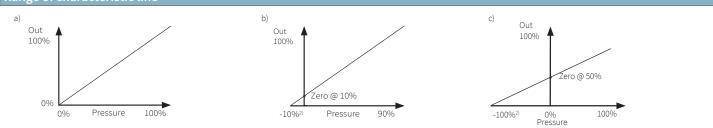
no additional root-extracted errors
 For changing diaphragm position, compensable with zero point reset

Test conditions:

25 °C, 45% rF, Power supply 24 VDC TC z.p. / TC z.p. 0 \dots 70 °C

| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|--|--|------------------------|---------------|---------------------|---|----------|---|---|----------|---|---|---|---|----|
| Order code selection | table | | | | 699. | Х | Х | Х | Х | Х | Х | X | X | X | Х |
| | max. range | | | | | 9 | | | | | | | | | |
| Pre-adjustment | middle range (factory se | etting) | | | | В | | | | | | | | | |
| | min. range (factory setti | ing) | | | | С | | | | | | | | | |
| | Pressure range of 0 % | 6 to 100% fs | | | | | 1 | | | | | | | | |
| Signal range selectable | Pressure range of -10% | % to 90% fs | | | | | 2 | | | | | | | | |
| | Pressure range of -100 9 | % to 100% fs | | | | | 3 | | | | | | | | |
| | mbar (hPa) | Ра | mmWS | inH₂O | under pressure max. | | | | | | | | | | |
| | 00.3/0.5 | 30/ 50 | 3/5 | 0.1/0.2 | -50 Pa | | | 0 | | | | | | | |
| | 0 0.3/0.5/ 1 | 30/50/ 100 | 3/5/10 | 0.1/0.2/0.3 | -100 Pa | | | 1 | | | | | | | |
| | 0 0.5/1/ 3 | 50/100/ 300 | 5/10/ 30 | 0.3/0.5/1 | -50 Pa | | | 2 | | | | | | | |
| Pressure range selectable | 0 1/3/5 | 100/300/500 | 10/30/50 | 0.5/1/2 | -50 Pa | | | 3 | | | | | | | |
| U U | 0 3/5/10 | 300/500/1000 | 30/50/100 | 1/2/3 | -50 Pa | | | 4 | | | | | | | |
| | 0 5/10/16 | 500/1000/ 1600 | 50/100/ 160 | 2/3/5 | -50 Pa | | | 5 | | | | | | | |
| | 0 10/16/25 | 1000/1600/2500 | 100/160/250 | 3/5/10 | -50 Pa | | | 6 | | | | | | | |
| | 0 16/25/50 | 1600/2500/5000 | 160/250/500 | 5/10/20 | -50 Pa | | | 7 | | | | | | | |
| | mbar | | | | | | | | 0 | | | | | | |
| | hPa | | | | | | | | 4 | | | | | | |
| | Pa | | | | | | | | 2 | | | | | | |
| Pressure unit | kPa | | | | | | | | 5 | | | | | | |
| | mmWS | | | | | | | | 3 | | | | | | |
| | inH ₂ O | | | | | | | | 6 | | | | | | |
| | | without Filter | | dual DIP-Swi | tch | | | | | 1 | | 0 | _ | | |
| Output signal / | Linear | with Filter (transposa | hle) | tenfold DIP-S | | | | | | 2 | | | | | |
| adjustment | Square root extracted | without Filter | | dual DIP-Swi | | | | | | 4 | | 0 | | | |
| aajaotinent | | with Filter (transposable) tenfold DIP-Switch | | | | | | | 3 | | | _ | | | |
| | 010V | 13.5 33 VDC / 24 V | | (3 wire) | Witch | | | | | | 1 | | | | |
| | 0 20 mA | 13.5 33 VDC / 24 V | | (3 wire) | | | | - | | | 3 | | _ | | |
| Output / power supply | | 13.5 33 VDC / 24 V | | (3 wire) | | | | | | | 4 | | | | |
| output/power suppry | 4 20 mA | 8.0 33 VDC | //0 1 10 // | (2 wire) | | | | | | | 5 | | | | |
| | Output signal complimentary selectable, at delivery no pre-adjustment | | | | | 9 | | | | 2 | 6 | | - | | |
| | without display | | | | | | | | | 2 | 0 | 0 | | | |
| | with display in pressure unit chosen above | | | | | | | | | | | 1 | | | |
| Option | with display in % fs | | | | | | | | | | | 2 | | | |
| | with module MODBUS | | | | | | | | | 2,3 | 1 | 3 | _ | | |
| | without pressure orifice | | | | | | | | | 2,3 | 1 | 5 | 1 | | |
| Pressure connection / | | | pressure orifice | | | | | | | | | | 2 | | |
| Pressure orifices | Connection pipe Ø 6.2 mm pressure orifice on P2 pressure orifice on P1 and P2 | | | | | | | | | | | | 2 | | |
| Pressure offices | | | | | | | | | | | | 4 | | | |
| | without | | | | | | | | | | | | 4 | 0 | |
| | ID F4 | | in al calina a traba o | | | | | | | | | | | | |
| Accounting / | IP 54 | with connection kit (metal), 90° angled including tube 2 m long (Fig. 1) | | | - | | - | | | | | | 1 | | |
| Accessories / | | with connection kit (plastic), straight including tube 2 m long (Fig. 2) | | | | | | | | | | | | 2 | |
| Connection Kit | without | | | | | - | <u> </u> | | | | | | | 3 | |
| | IP 65 | | | | | - | | - | | <u> </u> | | | | 4 | |
| | with connection kit (plastic), straight including tube 2 m long (Fig. 2) | | | | | | | - | | | | | | 5 | |
| Pressure range variation (optinal) Indicate W and state range on order (e.g.: W0. | | | + 8mbar/OUT1 | 6V) | | 9 | 1 | | | | | | | | W |
| openaty | maicale wanu sidle idi | nge on order (e.g., Wo | | 0v/ | | 9 | 1 | 1 | | | | | | | ٧V |

Range of characteristic line



¹⁾ TC = Temperature coefficient

Depending on the version parameters are adjustable by customer

Version Dual DIP-Switch

Variable parameters Pressure ranges in grades

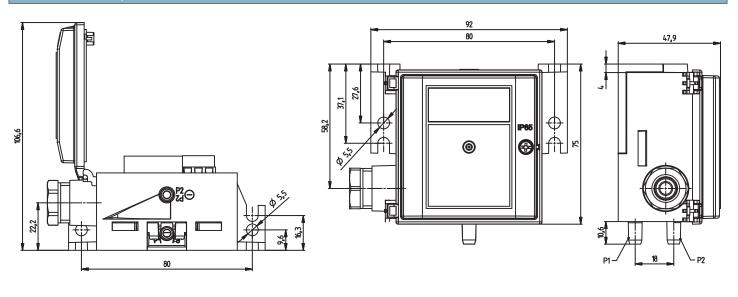
Tenfold DIP-Switch

Tenfold DIP-Switch with Display

Pressure ranges in grades; stepless adjustable with Turbo-Poti / output signals / filter (off / on) / response curve (linear / root extracted)

Pressure ranges in grades; stepless adjustable with Turbo-Poti / pressure units / pressure range character / output signals; additional 0 ... 5 V / filter (off / 0.2s / 1s / 5s / 20s) / response curve (linear / root extracted) / backlight (off / 5min / on)

| Accessories (supplied loose) | | Order number |
|--|----------------------------------|--------------|
| Connection kit for vent duct (metal), 90° angled | including tube 2 m long (Fig. 1) | 104312 |
| Connection kit for vent duct (plastic), straight | including tube 2 m long (Fig. 2) | 100064 |
| DIN-rail mounting adaptor (Fig. 3) | | 112854 |
| Module MODBUS | | 117305 |
| Calibration certificate | | 104551 |



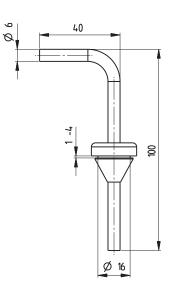






Universal 2 and 3 wire





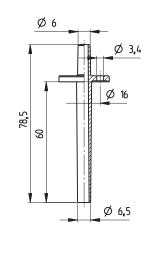
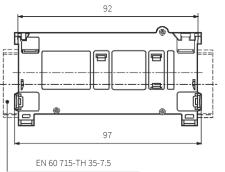
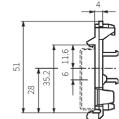


Fig. 2

Fig. 3





Huba Control

Huba Control AG

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