

Description

The operating pressure is converted into a proportional, electrical signal by a ceramics stainless steel pressure transducer. After amplification the signal is monitored as an analogue voltage or current signal. compressed air, natural gases or liquids

Media

Supply voltage

12-33 V DC residual ripple 5%, with reverse voltage protection, max. current consumption 4 mA

Electrical connector

plug M12x1, 4-pin, with coupling socket

Protection class IP67 according to DIN EN60529

Output signal

4-20 mA: max. power consumption 260 mW

0-10 V: max. power consumption 50 mW

Repeatability

< 0,3% v.E

Long-term stability < 0,3% v.E

Temperature sensitivity

< 0,2% v.E

Vibration resistance 20 g at 15-2000 Hz

Ambient temperature

from -30 °C to 85 °C

Media temperature

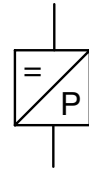
from -40 °C to 125 °C

Shock resistance

100 g (11 ms)

Material

Body: Stainless steel 316L, mat. no. 1.4404 O-Ring: FKM, optionally EPDM
Coupling socket: polyacrylamide 50% GF UL 94 V-0 Measuring cell: Stainless steel (bar areas) ceramics AL₂O₃ (mbar/absolute pressure areas)



**accurate to 0.3%
compressed air or liquids**

| Dimensions | | | Under-pressure | Over-pressure | Measurement range | Oder number |
|------------|----|----|----------------|---------------|-------------------|-------------|
| B | Ø | SW | max. bar | max. bar | bar | (4-20 mA) |
| mm | mm | mm | | | | |

Miniature

G $\frac{1}{4}$ male stainless steel, for compressed air, natural gases or liquids, with angular coupling socket

D2

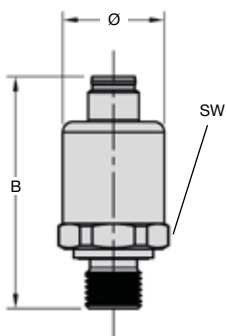
| | | | | | | | |
|----|----|----|----|------|------------|-----|----------------|
| 55 | 24 | 24 | -1 | 3,0 | -1 ... 0 | bar | D2A-V00 |
| | | | | 3,0 | -1 ... 1 | bar | D2A-V01 |
| | | | | 4,8 | -1 ... 1,5 | bar | D2A-V02 |
| | | | | 7,5 | -1 ... 2,5 | bar | D2A-V03 |
| | | | | 18 | -1 ... 5 | bar | D2A-V05 |
| | | | | 30 | -1 ... 9 | bar | D2A-V09 |
| | | | | 48 | -1 ... 15 | bar | D2A-V15 |
| | | | | 75 | -1 ... 24 | bar | D2A-V24 |
| | | | | 3,0 | 0 ... 1 | bar | D2A-01 |
| | | | | 4,8 | 0 ... 1,6 | bar | D2A-02 |
| | | | | 7,5 | 0 ... 2,5 | bar | D2A-03 |
| | | | | 12 | 0 ... 4 | bar | D2A-04 |
| | | | | 18 | 0 ... 6 | bar | D2A-06 |
| | | | | 30 | 0 ... 10 | bar | D2A-10 |
| | | | | 48 | 0 ... 16 | bar | D2A-16 |
| | | | | 75 | 0 ... 25 | bar | D2A-25 |
| | | | | 120 | 0 ... 40 | bar | D2A-40 |
| | | | | 180 | 0 ... 60 | bar | D2A-60 |
| | | | | 300 | 0 ... 100 | bar | D2A-D1 |
| | | | | 480 | 0 ... 160 | bar | D2A-D2 |
| | | | | 750 | 0 ... 250 | bar | D2A-D3 |
| | | | | 1200 | 0 ... 400 | bar | D2A-D4 |
| | | | | 1500 | 0 ... 600 | bar | D2A-D6 |
| | | | | 1500 | 0 ... 1000 | bar | D2A-E1 |



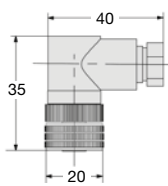
D2



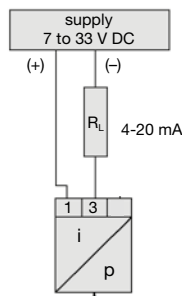
KM-A4-0



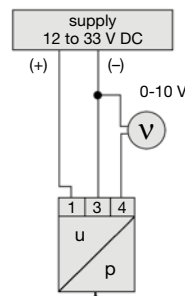
D2V-03



KM12-C4-0



D2A



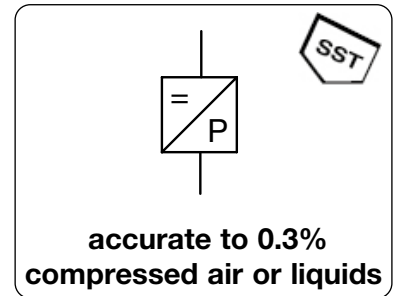
D2V

* Product group

PDF CAD
www.aircom.net



| | | | |
|--------------------------------|---|---|--|
| Description | The operating pressure is converted into a proportional, electrical signal by a ceramics stainless steel pressure transducer. After amplification the signal is monitored as an analogue voltage or current signal. | | |
| Media | compressed air, natural gases or liquids | | |
| Supply voltage | 12-33 V DC | residual ripple 5%, with reverse voltage protection, max. current consumption 4 mA | |
| Electrical connector | plug M12x1, 4-pin, with coupling socket | Protection class IP67 according to DIN EN60529 | |
| Output signal | 4-20 mA: max. power consumption 260 mW | 0-10 V: max. power consumption 50 mW | |
| Repeatability | < 0,3% v.E | Long-term stability < 0,3% v.E | |
| Temperature sensitivity | < 0,2% v.E | Vibration resistance 20 g at 15-2000 Hz | |
| Ambient temperature | from -30 °C to 85 °C | | |
| Media temperature | from -40 °C to 125 °C | | |
| Shock resistance | 100 g (11 ms) | | |
| Material | Body: Stainless steel 316L, mat. no. 1.4404 | O-Ring: FKM, optionally EPDM | |
| | Coupling socket: polyacrylamide 50% GF UL 94 V-0 | Measuring cell: Stainless steel (bar areas) ceramics AL ₂ O ₃ (mbar/absolute pressure areas) | |



| Dimensions | | | Under-pressure | Over-pressure | Measurement range | Oder number |
|------------|----|----|----------------|---------------|-------------------|-------------|
| B | Ø | SW | max. bar | max. bar | bar | (4-20 mA) |
| mm | mm | mm | | | | |

| Miniature | G $\frac{1}{4}$ male stainless steel, for compressed air, natural gases or liquids, with angular coupling socket | | | | | D2 |
|-----------|--|----|------|-----|-------------------|----------------|
| 55 | 24 | 24 | -0,3 | 2,0 | -50 ... 50 mbar | D2A-B5V |
| | | | | | -100 ... 100 mbar | D2A-C1V |
| | | | | | -200 ... 200 mbar | D2A-C2V |
| | | | | | -300 ... 300 mbar | D2A-C3V |
| | | | | | -100 ... 0 mbar | D2A-VC1 |
| | | | | | 0 ... 50 mbar | D2A-B5 |
| | | | | | 0 ... 100 mbar | D2A-C1 |
| | | | | | 0 ... 200 mbar | D2A-C2 |
| | | | | | 0 ... 300 mbar | D2A-C3 |
| | | | | | 0 ... 400 mbar | D2A-C4 |
| | | | | | 0 ... 600 mbar | D2A-C6 |



D2



KM-A4-0

Special options, add the appropriate letter or number

| | | |
|---|------------------------------|---------------|
| 0-10 V output signal | | D2V - . . |
| deviant measurement range to be indicated on order | | D2 . - XX |
| absolute pressure range measurement range from 0 ... 16 bar (Ceramic measuring cell) | | D2 . - . . A |
| flush-mounted diaphragm fully welded | | D2 . - . . F |
| G$\frac{1}{8}$ male connection thread | | D2 . - . . 01 |
| G$\frac{1}{2}$ male connection thread | | D2 . - . . 04 |
| NPT connection thread | | D2 . - . . N |
| EPDM elastomers | | D2 . - . . E |
| for oxygen specially cleaned | from measurement range 1 bar | D2 . - . . 15 |

Accessories, enclosed

| | | | | |
|------------------------------|-----------------|------------------|---------|------------------|
| coupling socket 4-pin | M12x1, straight | KM12-A4-0 | angular | KM12-C4-0 |
| socket with cable | 2 m, straight | KM12-A4-2 | angular | KM12-C4-2 |
| | 5 m, straight | KM12-A4-5 | angular | KM12-C4-5 |

* Product group

