



## Pressure transducers DeltaFox DMU 20 D

**Part no. 33409R010532**

**Pressure transducer version for differential pressure measurement**

### benefits

- multiple-range transmitter with up to 3 switchable measuring ranges
- easy parameterisation via 2-line LC display
- Min./Max. value indication
- ideal for clean room and filter monitoring

### Application

The differential pressure transducer DMU 20 D can be used with all dry, gaseous, non-corrosive media. The device detects even smallest differential pressures and is particularly suitable for heating, air conditioning and ventilation applications. Clean rooms and filter monitoring are other application areas.

### Description

The devices equipped with silicon sensors. When pressure is applied, the pressure difference between the positive side and the negative side is converted into a current and voltage signal which is proportional to the differential pressure. The 2-line LC display shows the measured value and the unit and optionally the status of the switching outputs. The customer can parameterise up to three measuring ranges.

### Technical Specifications

#### Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)

< 0/6 mbar

$\leq \pm 1 \% \text{ FSO (BFSL)}$

#### Display

2-line LC display,

visible area 32.5 x 22.5 mm,

5-digit 7-segment main display,

Character height 8 mm,

range  $\pm 9,999$ ,

8-digit 14-segment additional display,

height 5 mm, 52-segment bar chart,

accuracy 0.1 %  $\pm 1$  digit,

pressure units switchable mbar, bar, Pa, hPa, kPa, psi, Atm, torr, mmHg

#### Measuring range

0/1.6 mbar

#### Long-term stability

< 0/6 mbar

$\leq \pm 0.5 \% \text{ FSO/year}$

#### Operating temperature range

Medium: 0/50 °C

Ambient: 0/50 °C

Storage: -10/+70 °C

#### Housing

W x H x D: 132 x 68.5 x 50 mm

#### Process connection

hose olive  $\varnothing 4.4 \times 10 \text{ mm}$  (for flexible hoses with ID 4 mm)

#### material

Housing: Plastic (ABS)

Process/pressure connection: Brass, nickel-plated

Sensor: Ceramic, Silicone, epoxy, RTV

#### wetted parts

pressure connection, PVC/silicone hose, Sensor

**Supply voltage**

DC 19 – 32 V

**Output signal**

3-wire, 0/4–20 mA and 0–10 (5) V

**Load**

0/4–20 mA:  $R_{\max} = 330 \, \Omega$

0–10 V:  $R_{\min} = 10 \, k\Omega$

**electrical protection**

short circuit proof and protected against reverse polarity

**Electrical connection**

Cable gland M16 x 1.5

**Degree of protection**

IP 54 (EN 60529)

**CE conformity**

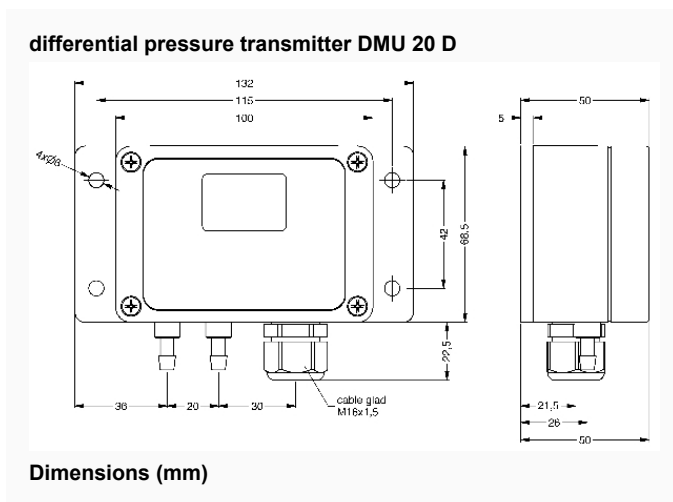
EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

**Options**

- other process connections
- other output signals

**Technical Drawings**



**Versions**

|                                        | Process/pressure connection          | switchable measuring ranges |          |     | static pressure | Part no.     |
|----------------------------------------|--------------------------------------|-----------------------------|----------|-----|-----------------|--------------|
|                                        |                                      | I                           | II       | III |                 |              |
| Pressure transducers DeltaFox DMU 20 D | hose olive $\varnothing$ 4.4 x 10 mm | 0/1.6 mbar                  | 0/1 mbar |     | max. 200 mbar   | 33409R010532 |

- in-stock items
- Non-stock items