# Pressure transducers DeltaFox® DMU 21 D Version for differential pressure measurement



- LED display and open collector switching output
- Turn down up to a maximum of 1:10 through customer
- Min./Max. value storage
- Housing can be rotated by 330° and pressure connections by 300°





Application For electronic differential pressure measurement which requires a local display in addition to the analogue output, for example for monitoring filters and fans. The differential pressure transducer can be used with all liquid and gaseous, corrosive media which are not highly viscous and which do not crystallize.

Description The DeltaFox® DMU 21 D pressure transducers feature two oil-immersed piezo-resistive stainless steel measuring cells and a 4-digit, red LED display. When pressure is applied, the pressure difference between the positive pressure side and the negative pressure side is converted into a current signal which is proportional to the differential pressure. A menu and two keys allow for displaying the measured values and for configuring the individual parameters.

# **Technical** Display specifications

4-digit red 7-segment LED display (character height 7 mm) Range -1,999 / +9,999 Accuracy: 0.1 %, ±1 digit Digital damping: 0.3 / 30 s (programmable) Display housing can be rotated by 330°

#### **Adjustments**

Turn down 1:10

Reference point for switching and analogue output selectable on + connection, - connection or differential pressure

#### Supply voltage

DC 24 V ±10 %

# Load

500 Ω

#### **Analogue output**

4 - 20 mA / 3-wire

#### Switching output

1 open collector (PNP), max. 125 mA Status indication via LED On/off delay 0 to 100 s Switching accuracy ≤± 0.5 % FSO

### Material

Housing: Plastic (PA 6.6, polycarbonate) Diaphragm: Stainless steel 316 L Pressure connection: Stainless steel 316 L Seal: FKM

## Wetted parts

Diaphragm, pressure connection, seal

# Measuring ranges

0/1 bar to 0/70 bar

#### Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 - limit point calibration (non-linearity, hysteresis, repeatability) ≤ ± 1 % FSO BFSL

## Application area

The maximum pressure in the system (maximum static pressure, one end) must not exceed the full scale value (FS).

#### Operating temperature range

Medium: -40 / +125 °C -25 / +85 °C Ambient: -40 / +85 °C Storage:

## **Process connection**

G½ (DIN 3852)

Both pressure connections rotatable by 300°

# **Electrical connection**

Connector M12 x 1, 5-pin

#### Electrical protection

Short circuit proof and protected against reverse polarity

### Degree of protection

IP 65 (EN 60529)

### **CE** conformity

EMC Directive 2014/30/EU RoHs Directive 2011/65/EU PED 2014/68/EU

#### Scope of delivery

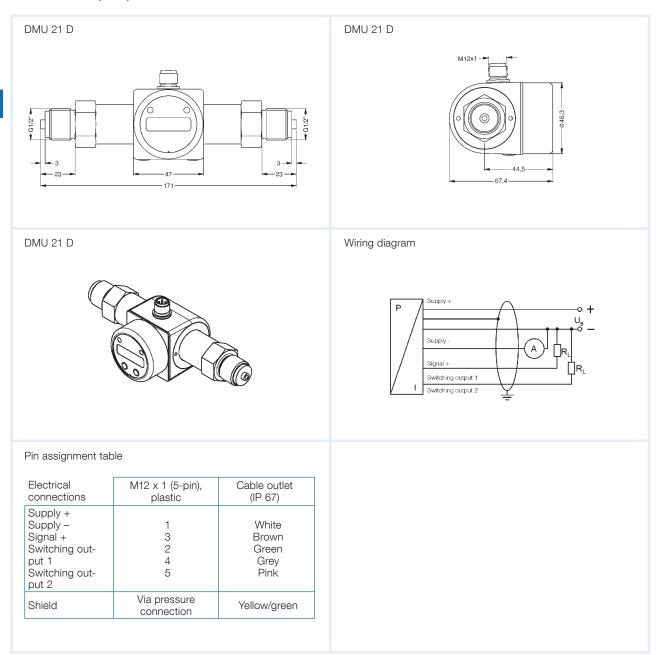
DMU 21 D. mounting bracket and 2 screws RoHs Directive 2011/65/EU

#### **Options**

- Other process connections
- 2 x PNP open collector switching outputs
- Fixed cable connection with 2 metres PVC cable

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Dimensions (mm) and electrical connections



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