



## Pressure transducers DMU 21 D

Part no. 33410101155011

Pressure transducers DeltaFox DMU 21 D Version for differential pressure measurement

### benefits

- 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 Specifications

#### Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)  
 $\leq \pm 1 \% \text{ FSO (BFSL)}$

#### Display

4-digit, red 7-segment, LED display,  
 Character height 7 mm,  
 range -1,999/+9,999,  
 accuracy 0.1 %  $\pm 1$  digit,  
 digital damping 0.3/30 s (programmable),  
 Display housing can be rotated by 330°

#### adjustment possibilities

Turn down 1:10  
 Reference point for switching and analogue output selectable on + connection, - connection or differential pressure

#### Measuring range

0/70 bar

#### 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  
 Ambient: -25/+85 °C  
 Storage: -40/+85 °C

#### Process connection

G $\frac{1}{2}$ B (DIN 3852, both pressure connections rotatable by 300°)

#### 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

#### Supply voltage

DC 24 V  $\pm 10 \%$

**Output signal**

3-wire, 4–20 mA

**Switching output**

1 open collector (PNP), max. 125 mA

Status indication via LED

On/off delay 0 to 100 s

repeatability:  $\leq \pm 0.5\%$  FSO

**Load**

500  $\Omega$

**electrical protection**

short circuit proof and protected against reverse polarity

**Electrical connection**

Connector M12 x 1, 5-pin

**Degree of protection**

IP 65 (EN 60529)

**CE conformity**

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Pressure Equipment Directive 2014/68/EU

**Scope of delivery**

- Pressure transducer DMU 21 D
- mounting bracket
- 2 screws

**Options**

- other process connections
- 2 x PNP open collector switching outputs
- fixed cable connection with 2 m PVC cable

**Versions**

	Measuring range		Part no.
Pressure transducers DMU 21 D	0/70 bar	●	33410101155011

- in-stock items
- Non-stock items