

# Pressure transducers DMU 13 with local display



#### **Benefits**

- Robust stainless steel housing (safety housing)
- High-precision measurements with integrated transducer
- Mechanical, power-independent local display

### **Application**

For pressure measurements with a power-independent local display in combination with an electrical output signal.

#### **Description**

The DMU 13 pressure transducers consist of a mechanical Bourdon tube measuring element and a piezo-resistive stainless steel measuring cell. The Bourdon tube measuring element is used to provide an easy-to-read analogue local display. The display is power-independent. Due to the integrated pressure transducer, high-precision measurement in parallel is possible. A standardised current output is available for signal transmission and recording of measured data. The robust stainless steel housing has a solid baffle wall and blow out (safety housing).



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#### **Technical specifications**

Nominal size

100

Accuracy class (EN 837-1/6)

1.0

Measuring accuracy

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

< ± 0.5 % FSO

Long-term stability

≤±0.2 % FSO/Jahr

Measuring range

See ordering table

Application area

Static load: Full scale value

Dynamic load: 0.9 x full scale value

Short-term load: 1.3 x full scale value

Operating temperature range

 $\begin{array}{lll} \mbox{Medium:} & -20/+100 \ ^{\circ}\mbox{C} \\ \mbox{Ambient:} & -20/+60 \ ^{\circ}\mbox{C} \\ \mbox{Storage:} & -40/+70 \ ^{\circ}\mbox{C} \end{array}$ 

Temperature error band

 $\leq$  1 % FSO/10 K In compensated range 0/70  $^{\circ}\text{C}$ 

Housing

With solid baffle wall and blow-out (S3)

Window

Laminated safety glass

#### **Options**

- Housing filling (paraffin oil)
- Electrical contacts
- Other connectors
- Other process connections
- Fitting of chemical seal

Process connection

G½B EN 837-1/7.3, bottom

Material

Housing: Stainless steel 304
Pressure connection: Stainless steel 316 L
Diaphragm: Stainless steel 316 L
Seal: FKM (Viton)

Wetted parts

Stainless steel 316 Ti/316 L

Pressure transmission liquid

Silicone oil

Supply voltage DC 12 – 36 V

Output signal 2-wire, 4–20 mA

Load

 $R_{Max} = [(UB - UB_{Min})/0.02 A] \Omega$ 

Current input < 25 mA

**Electrical connection** 

Junction box

Degree of protection IP 54 (EN 60529)

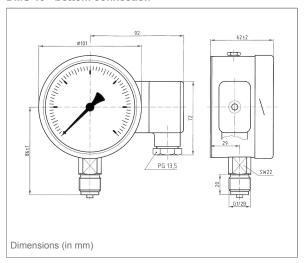
AFRISO

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## **Technical drawings**

DMU 13 - bottom connection



#### **Versions**

	Туре	Connection	Measuring range	Part no.
	DMU 13	G1⁄2B EN 837-1/7.3	0/1 bar	31077
	DMU 13	G1⁄2B EN 837-1/7.3	0/1.6 bar	31078
	DMU 13	G1∕2B EN 837-1/7.3	0/2.5 bar	31079
	DMU 13	G1∕2B EN 837-1/7.3	0/4 bar	31080
	DMU 13	G1∕2B EN 837-1/7.3	0/6 bar	31081
	DMU 13	G1⁄₂B EN 837-1/7.3	0/10 bar	31082
	DMU 13	G1⁄₂B EN 837-1/7.3	0/16 bar	31083
	DMU 13	G1∕2B EN 837-1/7.3	0/25 bar	31084
	DMU 13	G1⁄₂B EN 837-1/7.3	0/40 bar	31085

Blue part no. = in-stock items

