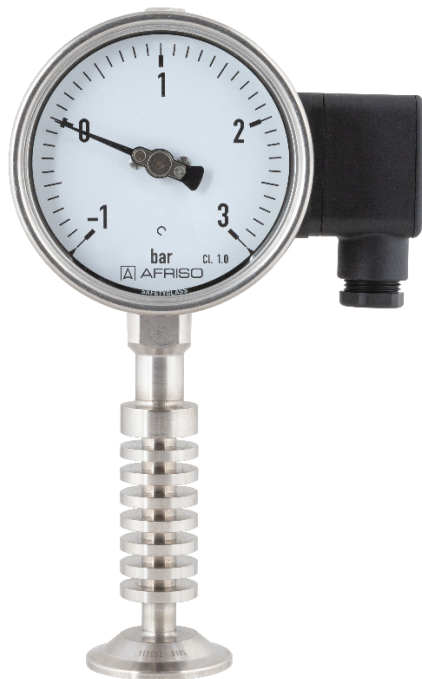




Pressure transducer with local display

benefits

- robust stainless steel housing
- high-precision measurements with integrated transducer
- mechanical, power-independent local display
- Zero calibration via magnet



Application

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

Description

The DMU 13 Vario pressure transducers consist of a mechanical Bourdon tube measuring element and a piezo-resistive polysilicon thin-film 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. The zero point of the electronic sensor can be corrected from the outside via a permanent magnet after voltage has been applied and within a given time window.

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)
 $\leq \pm 0.3 \% \text{ FSO}$

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

Medium: -10/+85 °C
Ambient: -10/+60 °C
Storage: -10/+70 °C

Temperature error band

$\leq 0.15 \% \text{ FSO}/10 \text{ K}$ In compensated range -10/+80 °C

Housing

with solid baffle wall and blow-out

window

Laminated safety glass

Process connection

G½B, bottom EN 837-1/7.3

material

Housing: Stainless steel 304

pressure connection: stainless steel 316 Ti/316 L

diaphragm: Stainless steel 630/304

wetted parts

stainless steel 316 Ti/316 L, Stainless steel 630/304

Supply voltage

DC 10 – 32 V

Output signal

2-wire, 4–20 mA

Load

$R_{\max} = [(UB - UB_{\min})/0.02 \text{ A}] \Omega$

Current input

< 25 mA

Electrical connection

Junction box

Degree of protection

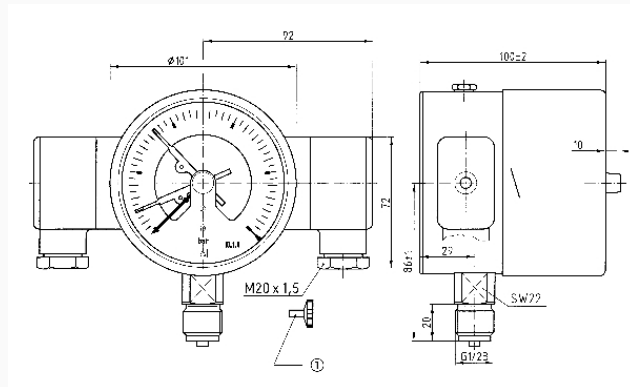
IP 54 (EN 60529)

Options

- Housing filling (paraffin oil)
- Electrical contacts
- other process connections
- Fitting of chemical seal
- Range for positive and negative overpressure, e.g. -1/+3 bar

Technical Drawings

DMU 13 Vario - bottom connection, with electrical contact



Dimensions (mm)

removable key, delivered loose with system

Versions

Range	Measuring range	Type	Version	Part no.
	-1/+0 bar	DMU 13 Vario		31200
	0/0.6 bar	DMU 13 Vario		31201
	0/1 bar	DMU 13 Vario		31202
	0/2.5 bar	DMU 13 Vario		31203
	0/4 bar	DMU 13 Vario		31204
	0/6 bar	DMU 13 Vario		31205
	0/10 bar	DMU 13 Vario		31206
	0/16 bar	DMU 13 Vario		31207
	0/25 bar	DMU 13 Vario		31208
	0/40 bar	DMU 13 Vario		31209
	0/60 bar	DMU 13 Vario		31210
	0/100 bar	DMU 13 Vario		31211
	0/160 bar	DMU 13 Vario		31212
	0/250 bar	DMU 13 Vario		31213
	0/400 bar	DMU 13 Vario		31214

-  in-stock items
-  Non-stock items