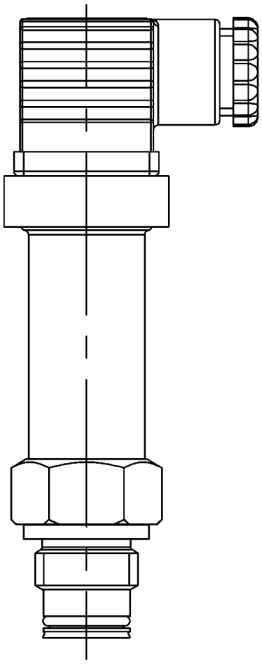

Pressure transducers

benefits

- ideal for hygienic processes
- connection technology with numerous versions
- extremely resistant to shock, pulsation and vibration
- best dynamic pressure resistance at high load changes
- Zero calibration via magnet

Application

For electronic pressure measurement in mechanical and plant engineering, and for gas and medical applications. With flush diaphragm, the pressure transducers are also suitable for use with viscous, highly viscous or crystallising media.

Description

Pressure transducers convert physical pressure into an electrical signal proportional to the pressure. DMU 02 Vario is equipped with a piezo-resistive polysilicon thin-film measuring cell. DMU 02 Vario is available in a virtually unlimited number of versions. All standard and customer-specific connections can be connected to the electronic precision measuring system. All standard electrical connection types are available. The zero point can be corrected from the outside via a permanent magnet after voltage has been supplied and within a given time window.

Technical Specifications

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

Measuring range
see ordering table

Operating temperature range
Medium: -10/+125 °C
Ambient: -10/+105 °C
Storage: -10/+125 °C

Temperature error band
≤ ± 0.15 % FSO/10 K In compensated range 0/70 °C

dynamic characteristics
Response time: < 20 ms

Process connection
G½B DIN 3852 type A

material
Housing: Stainless steel 304
pressure connection: Stainless steel 316 L
diaphragm: Stainless steel 316 L

pressure transmission liquid
multi-grade oil, FDA-compliant

Supply voltage
DC 10 – 32 V

Output signal
2-wire, 4–20 mA

Load
R_{max} = [(UB – UB_{min})/0.02 A] Ω

Current input
< 25 mA

electrical protection
short circuit proof and protected against reverse polarity

Electrical connection
Connector and junction box as per ISO 4400 (DIN 43650-A)

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

Options

- other process connections
- other electrical connections
- Field housing (stainless steel)
- Filling for oxygen
- other output signals
- customer-specific setting (damping, unit)

Versions

Range	Measuring range	Type	Version		Part no.
	-1/+0 bar	DMU 02 Vario FBO	flush		32863
	-1/+1.5 bar	DMU 02 Vario FBO	flush		32864
	-1/+3 bar	DMU 02 Vario FBO	flush		32865
	-1/+5 bar	DMU 02 Vario FBO	flush		32866
	-1/+9 bar	DMU 02 Vario FBO	flush		32867
	-1/+24 bar	DMU 02 Vario FBO	flush		32868
	0/1 bar	DMU 02 Vario FBO	flush		32872
	0/1.6 bar	DMU 02 Vario FBO	flush		32873
	0/2.5 bar	DMU 02 Vario FBO	flush		32874
	0/4 bar	DMU 02 Vario FBO	flush		32875
	0/6 bar	DMU 02 Vario FBO	flush		32876
	0/10 bar	DMU 02 Vario FBO	flush		32877
	0/16 bar	DMU 02 Vario FBO	flush		32878
	0/25 bar	DMU 02 Vario FBO	flush		32879
	0/40 bar	DMU 02 Vario FBO	flush		32880
	0/60 bar	DMU 02 Vario FBO	flush		32881
	0/100 bar	DMU 02 Vario FBO	flush		32882
	0/160 bar	DMU 02 Vario FBO	flush		32883

	0/250 bar	DMU 02 Vario FBO	flush	○	32884
	0/400 bar	DMU 02 Vario FBO	flush	○	32885
	0/600 bar	DMU 02 Vario FBO	flush	○	32886

● in-stock items

○ Non-stock items