



## Pressure transducers DMU 02 Vario



### Benefits

- Connection technology with numerous versions
- Extremely resistant to shock, pulsation and vibration
- Best dynamic pressure resistance at high load changes
- Measuring cell welded without seals
- Without transmission medium
- Turn Down 1:4
- Zero calibration via magnet

### Application

For electronic pressure measurement in mechanical and plant engineering, and for gas and medical applications. Particularly suitable for pure 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. All standard electrical connection types are available. The measuring ranges can be changed via optional parameterisation hardware and software. 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)  
< ± 0.3 % FSO

### Measuring range

See ordering table

### Overpressure safety

≤ 250 bar: At least 2 x FS  
> 250 bar: At least 1.5 x FS  
≥ 1,000 bar: At least 1.2 x FS

### Burst pressure

≤ 250 bar: At least 3 x FS  
> 250 bar: At least 2 x FS  
≥ 1,000 bar: At least 1.5 x FS

### Operating temperature range

Medium: -40/+125 °C  
Ambient: -40/+105 °C  
Storage: -40/+125 °C

### Temperature error band

± 0.15 % FSO/10 K In compensated range -10/+80 °C

### Dynamic characteristics

Response time: < 4 ms

### Process connection

G½B EN 837-1/7.3

### Material

Housing: Stainless steel 304  
Pressure connection: Stainless steel 630/316 Ti/316 L  
Electr. measuring cell: Stainless steel 630/304

### Supply voltage

DC 10 – 32 V

### Output signal

2-wire, 4–20 mA

### Load

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

### 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

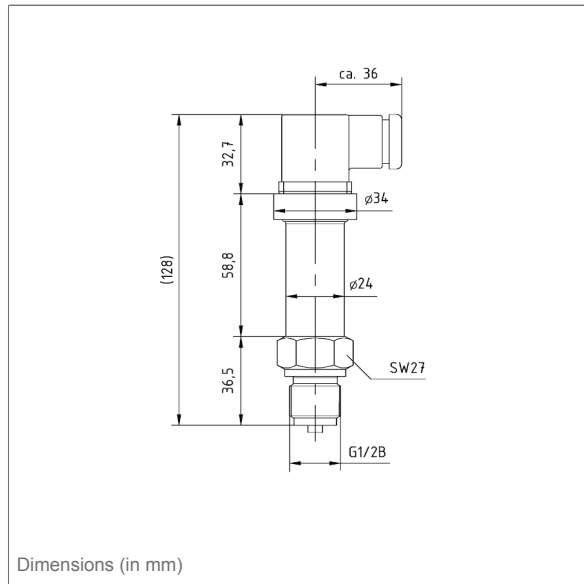
## Options

- Other process connections
- Other electrical connections
- Field housing (stainless steel)
- Cleaned for oxygen
- Other output signals
- Fitting of chemical seal
- Customer-specific setting (damping, unit)
- Programmable hardware and software
- Other operating temperature ranges



## Technical drawings

### DMU 02 Vario - connection G $\frac{1}{2}$ B EN 837



## Versions

Type	Connection	Measuring range	Part no.
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/0 bar	32833
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/+1.5 bar	32834
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/+3 bar	32835
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/+5 bar	32836
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/+9 bar	32837
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	-1/+24 bar	32838
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/600 mbar	32841
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/1 bar	32842
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/1.6 bar	32843
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/2.5 bar	32844
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/6 bar	32846
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/10 bar	32847
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/16 bar	32848
DMU 02 Vario	G $\frac{1}{2}$ B EN 837-1/7.3	0/25 bar	32849



Blue part no. = in-stock items



Type	Connection	Measuring range	Part no.
DMU 02 Vario	G½B EN 837-1/7.3	0/40 bar	32850
DMU 02 Vario	G½B EN 837-1/7.3	0/60 bar	32851
DMU 02 Vario	G½B EN 837-1/7.3	0/100 bar	32852
DMU 02 Vario	G½B EN 837-1/7.3	0/160 bar	32853
DMU 02 Vario	G½B EN 837-1/7.3	0/250 bar	32854
DMU 02 Vario	G½B EN 837-1/7.3	0/400 bar	32855
DMU 02 Vario	G½B EN 837-1/7.3	0/600 bar	32856
DMU 02 Vario	G½B EN 837-1/7.3	0/1,000 bar	32857

Blue part no. = in-stock items