



Pressure transducers DMU 30

Part no. DMU 30211150401

Pressure transducer industrial version

benefits

- for pressure ranges up to 1,000 bar
- suitable for high overloads
- insensitive to pressure peaks
- Ex version (optional)

Application

For electronic pressure measurement in machines and systems with technical gases (e.g. oxygen, oil-free, grease-free) and for use in hydrogen applications.

Description

Pressure transducers convert physical pressure into an electrical signal proportional to the pressure. DMU 30 is equipped with a welded stainless steel measuring cell.

Technical Specifications

Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)
 $< \pm 0.5 \% \text{ FSO}$

Long-term stability

$\leq \pm 0.2 \% \text{ FSO/year}$ at reference conditions

Measuring range

0/16 bar

Overpressure safety

16 bar
 at least 3 x FS

Burst pressure

< 600 bar
 at least 5 x FS
 Vacuum resistance: unlimited

Operating temperature range

Medium: -40/+125 °C
 Ambient: -40/+100 °C
 Storage: -40/+85 °C

Temperature error band

$\leq \pm 0.2 \% \text{ FSO}/10 \text{ K}$ In compensated range $-25/+85 \text{ }^{\circ}\text{C}$

dynamic characteristics

Response time: $\leq 10 \text{ ms}$

Process connection

G $\frac{1}{2}$ B (EN 837-1/7.3)

material

Housing: Stainless steel 316 L

pressure connection: Stainless steel 316 L

diaphragm: Stainless steel 316 L

Seal: without (welded)

Degree of cleanliness: oil- and grease-free version, based on ISO 15001

Residual particles: no particles $> 100 \text{ }\mu\text{m}$ (with reference to 10 dm^2)

Residual grease: Residual grease content $< 0.2 \text{ mg/dm}^2$

Supply voltage

Standard version

DC 8 – 32 V

Output signal

4–20 mA, 2-wire

Load

$R_{\text{max}} = [(U_{\text{B}} - U_{\text{B}_{\text{min}}})/0.02 \text{ A}] \Omega$

Current input

$< 25 \text{ mA}$

electrical protection

short circuit proof and protected against reverse polarity

Electrical connection

Cable outlet with PVC cable

Degree of protection

IP 67 (EN 60529)

CE conformity

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

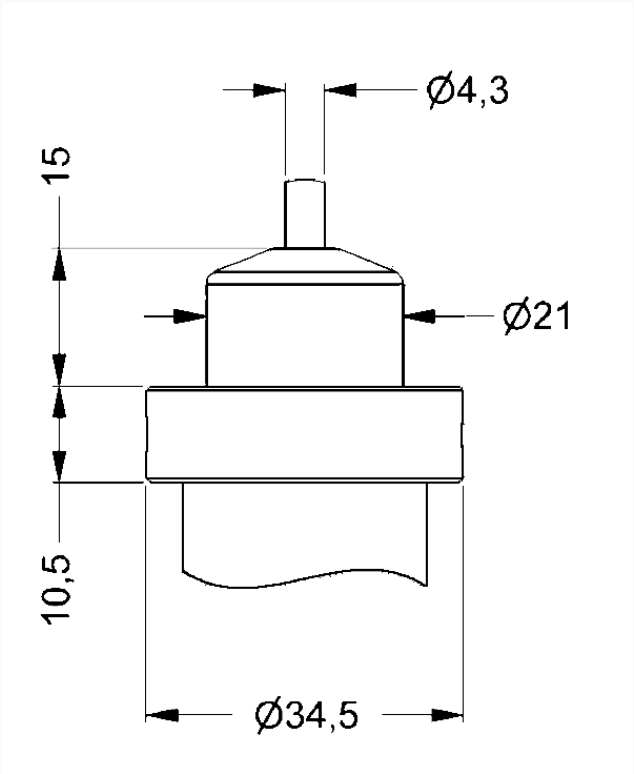
Pressure Equipment Directive 2014/68/EU

Options

- Ex version zone 0+20 (II 1G Ex ia IIC T4 Ga, II 1D Ex ia IIIC T135 $^{\circ}\text{C}$ Da)
- other electrical connections
- Other output signal
- Fitting of chemical seal

Technical Drawings

electrical connections
Cable outlet with PVC cable (IP 67)



Dimensions (mm)

Versions

			Connection	Connection	Measuring range		Part no.
	Cable outlet with PVC cable	Standard version	G $\frac{1}{2}$ B	(EN 837-1/7.3)	0/16 bar	●	DMU 30211150401

- in-stock items
- Non-stock items