

Pressure transducers DMU 02

Part no. 32810

Pressure transducers DMU 02 Industrial version



benefits

- extremely resistant to shock, pulsation and vibration
- high overload safety
- best dynamic pressure resistance at high load changes
- wetted area without seals due to welding
- no transmission liquid

Application

For electronic pressure measurement in industrial applications, e.g. hydraulic, pneumatic, gas industry, refrigeration, automation, medical, as well as general mechanical and plant engineering applications.

Description

Pressure transducers convert physical pressure into an electrical signal proportional to the pressure. DMU 02 is equipped with a piezo-resistive polysilicon thin-film measuring cell.

Technical Specifications

Measuring accuracy

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

Measuring range

0/2.5 bar

Overpressure safety

$\leq 250 \text{ bar}$
 at least 2 x FS

Burst pressure

$\leq 250 \text{ bar}$
 at least 3 x FS

Operating temperature range

Medium: $-40/+125 \text{ }^\circ\text{C}$
 Ambient: $-40/+105 \text{ }^\circ\text{C}$
 Storage: $-40/+125 \text{ }^\circ\text{C}$

Temperature error band

$\leq \pm 0.15 \% \text{ FSO}/10 \text{ K}$ In compensated range $-25/+85 \text{ }^\circ\text{C}$

dynamic characteristics

Response time: $< 1 \text{ ms}$

Process connection

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

material

Housing: Stainless steel 304

pressure connection: Stainless steel 304

electr. measuring cell: Stainless steel 630/304

Supply voltage

DC 10 – 32 V

Output signal

2-wire, 4–20 mA

Load

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

Current input

< 25 mA

Options

- other connection threads
- fixed cable connection
- other connectors
- other output signals
- cleaned for oxygen

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

Technical Drawings

DMU 02 - connector ISO 4400 (DIN 43650-A)



Dimensions (mm)
Ex version

Versions

Range	Measuring range	Type	Version	Part no.
	0/2.5 bar	DMU 02	●	32810

- in-stock items
- Non-stock items