

# Pressure transducers DMU 01 Standard version







## **Application**

For electronic pressure measurement in industrial applications (such as hydraulic and pneumatic applications as well as machine and plant construction).

#### Description

The DMU 01 pressure transducers use proven ceramic measurement cell technology and feature calibrated, amplified sensor signals which are available as standardised voltage or current outputs.

#### DMU 01 features:

- High temperature resistance
- No mechanical ageing
- No transmission liquid

#### Accuracy of measurement

Deviation characteristics according to IEC 60770 - limit point setting (non-linearity, hysteresis, repeatability): < ±0,5 % FSO (meas. ranges -1/0 bar < ± 1 % FSO)

# Measuring ranges

Relative pressure: -1/0 to 0/400 bar Absolute pressure: 0/1 to 0/400 bar

#### Overpressure safety

 $\leq$  250 bar min. 2 x FS > 250 bar min. 1.5 x FS (burst pressure min. 3 x FS)

## Operating temperature range

-25 °C/+125 °C Medium: Ambient: -25 °C/ +85 °C -40 °C/ +85 °C Storage:

## Temperature error band

In compensated range -25/+85 °C ≤ ±0.3 % FSO/10 K

#### Dynamic characteristics

Response time

2-wire < 10 ms 3-wire < 3 ms

#### **Process connection**

G1/2B (EN 837-1/7.3) or G<sup>1</sup>/<sub>2</sub>B DIN 3852 with flush mounted diaphragm (up to 0/25 bar max.)

#### Materials

Housing: stainless steel 1.4301 Pressure-

connection: stainless steel 1.4571 Diaphragm: ceramic Al<sub>2</sub>0<sub>3</sub> 96 % Seal: FKM (Viton)

# Output signal/supply voltage

DC 8-36 V 4-20 mA

2-wire

0-10 V DC 14-30 V

3-wire

#### Load

 $4-20 \text{ mA} \leq U_B - U_{Bmin}$ 0,02 A 0-10 V > 10 kOhm

## **Current input**

4-20 mA < 25 mA 0-10 V < 20 mA

#### Protective electrical measures

Short circuit proof and polarity protected

## Electrical connection (protection)

Plug and junction box DIN 43650-A (IP 65)

# CE conformity (EMC)

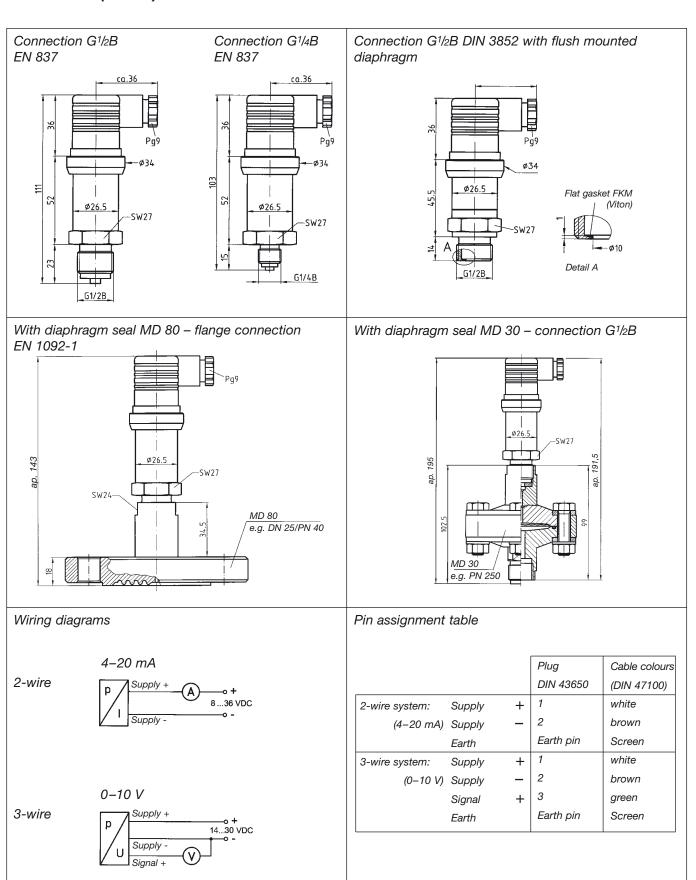
EMC directive 2004 / 108 / EG

# **Options**

- Other connection threads
- Fixed cable connection
- Other plug-in connectors
- Fitting of diaphragm seals (measuring range ≥ 0/10 bar)

# Pressure transducers DMU 01

# Dimensions (in mm) and electrical connections



The units are shipped with a detailed wiring diagram.