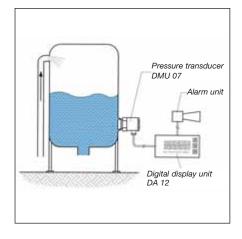


Pressure transducer DMU 07 for level measurement







Application

For continuous electronic level measurement of liquids and pressure measurement of liquids and gases in plant construction.

Description

The DMU 07 pressure transducers are equipped with a ceramic sensor element for capacitive measurement. They feature a calibrated, amplified sensor signal which is available as a standardised current output.

DMU 07 features:

- Flush mounted diaphragm
- Measuring cell without oil filling
- High resistance to chemicals
- Mechanically insensitive ceramic sensor
- Robust and reliable design; also suitable for arduous industrial applications (shock, vibration)
- Excellent long-term stability
- Good temperature characteristics

Accuracy of measurement

Deviation characteristics according to IEC 60770 – limit point setting (non-linearity, hysteresis, repeatability): < ±0.35 % FSO

Measuring rangesRelative pressure: 0/40 mbar to 0/10 bar

Overpressure safety

 \leq 400 mbar min. 8 x FS > 400 mbar min. 4 x FS

Operating temperature range

Medium: -25 °C/+125 °C Ambient: -25 °C/ +85 °C Storage: -40 °C/+100 °C

Temperature error band

In compensated range 0/+85 °C ≤ 0.1 % FSO/10 K

Dynamic characteristics

Response time < 200 ms

Process connection

G11/2B flush mounted diaphragm

Materials

Housing: stainless steel 1.4305

Pressure-

connection: stainless steel 1.4571 Diaphragm: ceramic Al₂0₃ 96 %

Seal: FKM (Viton)

Output signal/supply voltage

4-20 mA DC 9-36 V

2-wire

Load

4–20 mA ≤ $U_B - U_{Bmin}$ 0,02 A 0–10 V > 10 kOhm

Current input

 $4-20 \text{ mA}^{-2} < 21 \text{ mA}$

EProtective electrical measures

Short circuit proof and polarity protected

Electrical connection (protection)

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

CE conformity (EMC)

EN 61326

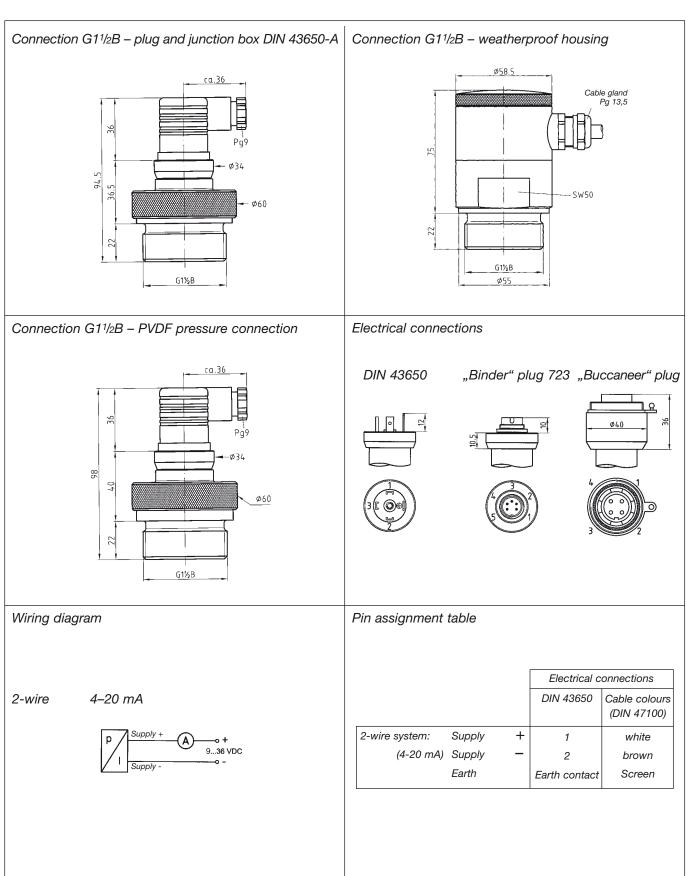
Options

- PVDF pressure connection
- · Other seal materials
- Weatherproof housing (stainless steel 1.4305)
- Weatherproof housing with display
- Higher accuracy
- Other output signals

Please refer to chapter 1 for the complete "Level Measurement" range.

Pressure transducers DMU 07

Dimensions (in mm) and electrical connections



The units are supplied with a detailed wiring diagram.