Pressure transducers HydroFox® DMU 09 Level probe – for chemical applications

- Chemical-resistant plastic version
- Robust ceramic diaphragm
- without transmission liquid
- Highly resistant FEP cable
- Special calibration for all standard pressure units possible
- ATEX version (optional)





Application Electronic, continuous level measurement in extremely corrosive liquids, e.g. chemicals or waste water from landfill sites.

Pressure transducers HydroFox® convert physical pressure into an electrical signal proportional to the Description pressure. HydroFox® DMU 09 uses a capacitance ceramic measuring cell.

Technical Measuring accuracy

specifications

Deviation from the characteristic curve according to IEC 60770 - limit point calibration (non-linearity, hysteresis, repeatability): <±0.35 % FSO

Measuring ranges

Relative pressure: 0/40 mbar to 0/10 bar

Overpressure safety

≤ 400 mbar at least 5 x FS > 400 mbar at least 3 x FS

Operating temperature range

Medium: -25/70 °C -25/70 °C Ambient: Storage: -25/70 °C

Temperature error band

In compensated range 0/70 °C $\leq \pm$ 0.1 % FSO/10 K

Dynamic characteristics

Response time < 200 ms

Materials

Housing: Ex version: Diaphragm: Seals:

PP Stainless steel 316 L Ultra-pure ceramic (Al₂O₃ 99.9 %) FKM (Viton)

Options • Housing PVDF

- Cable protection conduits
- FFKM seals
- ATEX version (x) (Ex II 1G bzw. II 1/2G Ex ia IIC/IIB T4 Ga or Ga/Gb Ex II 1D Ex ia IIIC T85°C Da)

Output signal/supply voltage

4–20 mA / DC 9-32 V 2-wire Ex version DC 14-28 V 0-10 V DC 14-32 V

Load

 $4-20 \text{ mA: } R_{max} = [(U_B - U_{Bmin}) / 0.02 \text{ A}] \Omega$

Current input 4–20 mA < 21 mA

Electrical protection

Short circuit proof and protected against reverse polarity

Electrical connection/degree of protection

FEP cable (IP 68) With integrated breather tube for reference to the ambient atmospheric pressure

CE conformity

EMC Directive 2014/30/EU RoHs Directive 2011/65/EU PED 2014/68/EU

Accessories (options)

- Screw connector kit
- Junction box
- Anchor clamp

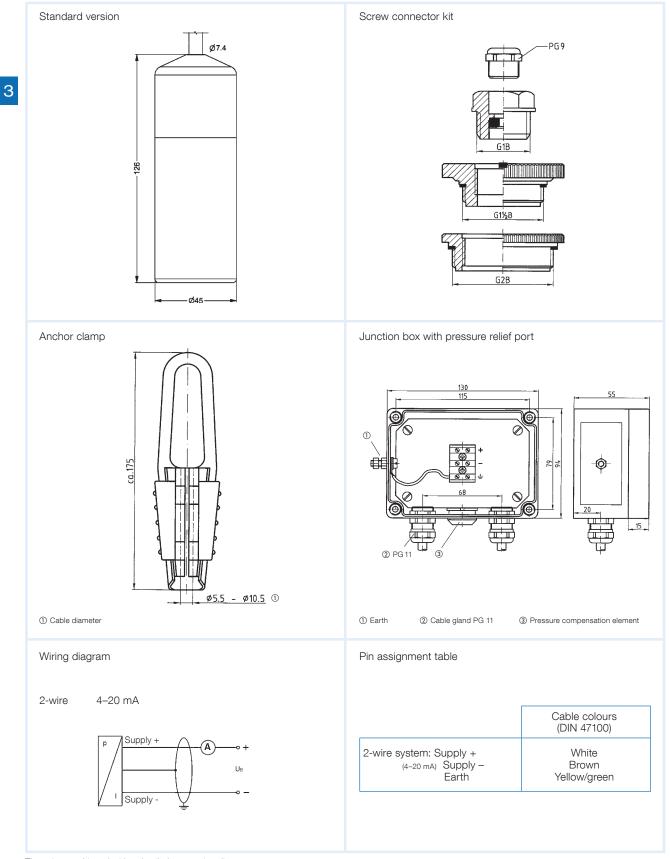
See chapter 5 for the complete "Level Measurement" range.

See page 237 for prices.



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Dimensions (mm) and electrical connections



The units are shipped with a detailed connection diagram.

