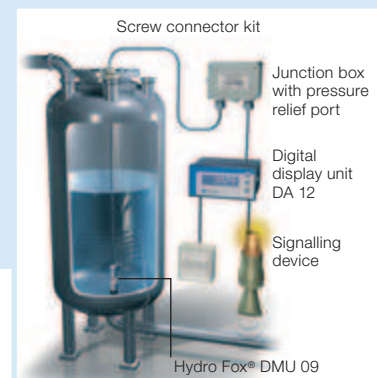




Pressure transducers HydroFox® DMU 09 Level probe – for chemical applications

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



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

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

Technical specifications

Measuring accuracy

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

Measuring ranges

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

Overpressure safety

≤ 400 mbar at least $15 \times$ FS
 > 400 mbar at least $4 \times$ FS

Operating temperature range

Medium: 0/70 °C
 Ambient: -10/+70 °C
 Storage: -10/+70 °C

Temperature error band

In compensated range
 0/70 °C $< 0.5\%$ FSO/10 K

Dynamic characteristics

Response time < 200 ms

Materials

Housing: PP
 Diaphragm: Ceramic (Al_2O_3 96 %)
 Seals: FKM (Viton)

Output signal/supply voltage

4–20 mA DC 11–32 V
 2-wire

Load

$4-20 \text{ mA} \leq \frac{U_B - U_{Bmin}}{0.02 \text{ A}}$

Current input

4–20 mA < 25 mA

Electrical protection

Short circuit proof and protected against reverse polarity

Electrical connection/degree of protection

FEP cable (IP 68)

CE conformity (EMC)

EMC Directive 2004/108/EC

Accessories (options)

- Screw connector kit
- Junction box
- Lightning protection
- Anchor clamp

Options

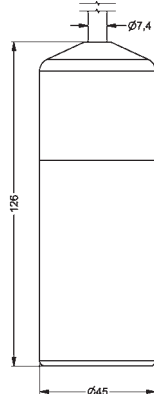
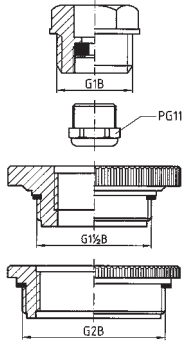
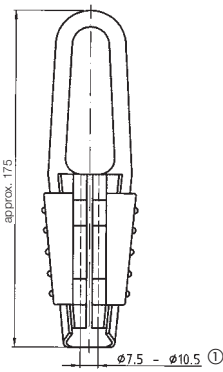
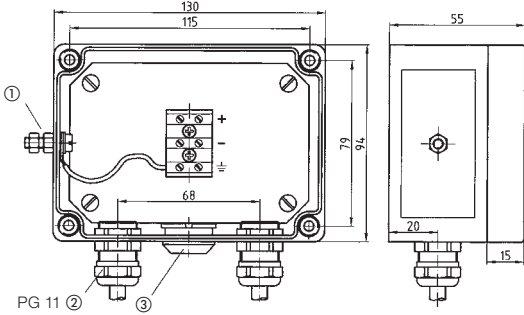
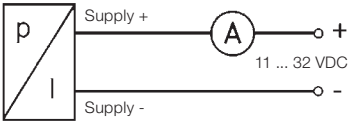
- Housing PVDF
- Cable protection conduits
- FFKM seals
- Diaphragm pure ceramic (Al_2O_3 99.9 %)

i

See chapter 1 for the complete "Level Measurement" range. See page 467 for prices.

Pressure transducers HydroFox® DMU 09

Dimensions (mm) and electrical connections

<p>Standard version</p> 	<p>Screw connector kit</p> 								
<p>Anchor clamp</p>  <p>① Cable diameter</p>	<p>Junction box with pressure relief port</p>  <p>① Earth ② Cable gland PG 11 ③ Pressure compensation element</p>								
<p>Wiring diagram</p> <p>2-wire 4–20 mA</p> 	<p>Pin assignment table</p> <table border="1" data-bbox="786 1339 1409 1518"> <tr> <td></td> <td>Cable colours (DIN 47100)</td> </tr> <tr> <td>2-wire system: Supply + (4–20 mA)</td> <td>White</td> </tr> <tr> <td>Supply -</td> <td>Brown</td> </tr> <tr> <td>Earth</td> <td>Cable shield</td> </tr> </table>		Cable colours (DIN 47100)	2-wire system: Supply + (4–20 mA)	White	Supply -	Brown	Earth	Cable shield
	Cable colours (DIN 47100)								
2-wire system: Supply + (4–20 mA)	White								
Supply -	Brown								
Earth	Cable shield								

The units are shipped with a detailed connection diagram.

11