

# Hydrostatic level indicator HydroFox® DMU 08



- Compact and robust stainless steel design
- Special calibration for all standard pressure units possible
- Version with PUR or FEP cable
- ATEX version (optional)



**Application** For electronic, continuous level measurement, e.g. in wells, drilling holes, water, containers or in waste water systems. Suitable for groundwater, drinking water, waste water (with optional FEP cable), diesel fuel, fuel oil; also for use in flood hazard areas.

**Description** Pressure transducers HydroFox® DMU 08 convert physical pressure into an electrical signal proportional to the pressure. HydroFox® DMU 08 uses a piezo-resistive silicon measuring cell.

**Technical specifications**

**Measuring accuracy**  
Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability):  
≤ ± 0.35 % FSO (measuring ranges 0/100 mbar to 0/400 mbar < ± 0.5 % FSO)

**Measuring ranges**  
Relative pressure: 0/100 mbar to 0/25 bar

**Operating temperature range**  
Medium: -10/+70 °C  
Ambient: -10/+70 °C  
Storage: -25/+70 °C

**Temperature error band**  
In compensated range  
0/70 °C ≤ ±1 % FSO/10 K

**Dynamic characteristics**  
Response time ≤ 10 ms

**Materials**  
Housing: Stainless steel 316 L  
Diaphragm: Stainless steel 316 L  
Seals: FKM (Viton)

**Pressure transmission liquid**  
Silicone oil

**Supply voltage**  
DC 8–32 V

**Output signal**  
4–20 mA, 2-wire

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

**Current input**  
4–20 mA < 25 mA

**Electrical protection**  
Short circuit proof and protected against reverse polarity

**Electrical connection (degree of protection)**  
PUR cable, 5 m (IP 68)  
With integrated breather tube for reference to the ambient atmospheric pressure

- Accessories (options)**
- Screw connector kit
  - Junction box
  - Anchor clamp
- Options**
- Screw connector kit
  - Junction box
  - Anchor clamp
  - Extended weight
  - ATEX version (see chapter 3)

| DG: H   | PG | Part no. | Price € |
|---|----|----------|---------|
| <b>DMU 08 with 5 m PUR cable</b>              |    |          |         |
| Measuring range                               |    |          |         |
| 0/100 mbar                                    | 4  | 31555    |         |
| 0/160 mbar                                    | 4  | 31556    |         |
| 0/200 mbar                                    | 4  | 31557    |         |
| 0/250 mbar                                    | 4  | 31558    |         |
| 0/300 mbar                                    | 4  | 31519    |         |
| 0/400 mbar                                    | 4  | 31559    |         |
| <b>Screw connector kit</b>                    |    |          |         |
| plastic, G2 x 1½ x 1                          | 1  | 52125    |         |
| <b>Junction box with pressure relief port</b> |    |          |         |
|   | 1  | 31824    |         |

Blue part no. = in-stock items

**i** Complete range for "hydrostatic level measurement" see chapter 3: DMU 07 – DMU 09.