Hydrostatic level indicator
HydroFox® DMU 08

- Compact and sturdy stainless steel design
- Special calibration for all standard pressure units possible
- Version with PUR or FEP cable
- Optional ATEX version

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
The level indicators HydroFox® DMU 08 use silicon technology and feature calibrated, amplified sensor signals which are available as standardised voltage or current outputs.

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

Overpressure safety
Depends on pressure range
4 x FS to 15 x FS (burst pressure)
3 x FS to 8 x FS (overload)

Operating temperature range
Medium: -10/+70 °C
Ambient: -10/+70 °C
Storage: -25/+70 °C
For Ex version -20/+60 °C
with P_{amb} 0.8 bar to 1.1 bar

Temperature error band
In compensated range
0/70 °C ≤ 400 mbar ≤ ±1 % FSO/10 K
≥ 400 mbar ≤ ±0.75 % 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
EX version DC 10–28 V

Output signal
4–20 mA, 2-wire

Load
4–20 mA: \( R_{\text{max}} = \frac{U_{\text{L}} - U_{\text{BMIN}}}{0.02 \text{ A}} \) Ω

Current input
4–20 mA < 25 mA

Electrical protection
Short circuit proof and protected against reverse polarity

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

Accessories (options)
- Screw connector kit
- Junction box
- Anchor clamp
- Extended weight

Options
- Ex version (II 1G Ex ia IIC T4 Ga, II 1D Ex ia IIIC T85 °C Da)
- Measuring accuracy 0.1 % FSO
- FEP cable
- SIL 2 (IEC 61508/61511)

DG: H
PG
Part no.
Price €

DMU 08 with 5 m PUR cable

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>0/100 mbar</th>
<th>4</th>
<th>31555</th>
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<tbody>
<tr>
<td>0/160 mbar</td>
<td>4</td>
<td>31556</td>
<td></td>
</tr>
<tr>
<td>0/200 mbar</td>
<td>4</td>
<td>31557</td>
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<tr>
<td>0/250 mbar</td>
<td>4</td>
<td>31558</td>
<td></td>
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<tr>
<td>0/300 mbar</td>
<td>4</td>
<td>31519</td>
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Screw connector kit
plastic, G2 x 1½ x 1
1
52125

Junction box with pressure relief port
1
31824

Complete range of pressure transducers
see catalogue
INDUSTRIAL TECHNOLOGY.