Electronic level transmitters
HYDROBAR
Series 2000/8000
with flush, extended diaphragm
Description

The “Hydrobar” series consist of electronic level transmitters with a cable or SS tube extension, to measure level in concrete bunkers, waterworks, deep wells, underground tanks, etc. Several types are available.

All “Hydrobar” transmitters are equipped with a strong flush mounted diaphragm and a diaphragm protection cap. The output is 4 ... 20 mA/2-wire.

Zero and span are internally adjustable in wide ranges (except for type Hydrobar-cable-FF which has a fixed range).

The “Hydrobar” transmitters can withstand high overpressures and have an excellent long term stability. The diameter of the SS tube extension is 38 mm, with a max. length of 4 metres.

All versions enjoy CENELEC approval for intrinsically safe applications (option).

Electronic level transmitters
HYDROBAR Series 8000 and HYDROBAR “S” 2000
with flush, extended diaphragm

- All stainless transmitters
- Cable or tube extension
- Strong diaphragms
- Output 4 ... 20 mA
- Zero/span adjustable
- Local indicator available
- Intrinsically safe EEx ia IIC T4

Accuracy 0.2 %

Accuracy 0.1 %
Hydrobar

**Specifications HYDROBAR 8000**

- Measuring ranges: 0.1 bar ... 4 bar
- Output signal: 4 ... 20 mA, 2-wire
- Adjustment: Zero and span internally (except FR)
- Accuracy: +/- 0.2% of adjusted span
- Power supply: 13 ... 40 VDC (Exi: 17 ... 28 VDC)
- Laser welded diaphragm: All Hydrobar level transmitters consist of a strong, flush mounted diaphragm, which are laser welded.
- Temperature compensated seals: All Hydrobar transmitters are fully temperature compensated.
- EMC/CE: All transmitters are manufactured according to the new EMC/CE rules.

**General information**

Laser welded diaphragm: All Hydrobar level transmitters consist of a strong, flush mounted diaphragm, which are laser welded.

Temperature compensated seals: All Hydrobar transmitters are fully temperature compensated.

EMC/CE: All transmitters are manufactured according to the new EMC/CE rules.

**Accessories**

- Cable clamp for Hydrobar-cable
- Wall mounting bracket for SS tube extension
- Extra cable length (standard 3 m, max 100 m)
- Extra SS tube length (standard 2 m, max 4 m)
- Other cable material (PVC or PTFE) (specify)
- Other diaphragm materials (specify)

**Ordering Code Series 8000**

| Order code cable extension:* | Hydrobar-cable (length) - |
| Order code S extension:* | Hydrobar-EXTD (length) - |
| Order code FR extension: | Hydrobar-EXTD-F (length) - |

<table>
<thead>
<tr>
<th>measuring range</th>
<th>overpressure max.</th>
<th>adjustable span range</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>bar</td>
<td>bar</td>
</tr>
<tr>
<td>0 - 0.1 ... 0.4</td>
<td>6.4</td>
<td>0 - 0.1 ... 0.4</td>
</tr>
<tr>
<td>0 - 0.4 ... 0.7</td>
<td>6.4</td>
<td>0 - 0.4 ... 0.7</td>
</tr>
<tr>
<td>0 - 0.7 ... 1.5</td>
<td>10.5</td>
<td>0 - 0.7 ... 1.5</td>
</tr>
<tr>
<td>0 - 1 ... 4</td>
<td>16</td>
<td>0 - 1 ... 4</td>
</tr>
</tbody>
</table>

Fixed range: Specify calibrated range (only Hydrobar-cable)

Mounting connection: Flange DIN or ANSI (specify size)

Special mounting connections: Example 1 1/2” BSP (specify)

Digital local indicator: (3 1/2 digit, programmable)

Intrinsically safe: ATEX II 1 G EEx ia IIC T4

*Specials*: Specify, other wetted parts or other cable material

* Always specify cable or SS extensions length at order code

*Hydrobar*
## Ordering Code Series 2000

### Order code cable extension:
Hydrobar-cable (length) -

### Order code S extension:
Hydrobar-EXTD (length) -

<table>
<thead>
<tr>
<th>measuring range bar</th>
<th>overpressure max. bar</th>
<th>adjustable span range bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 0.04 ... 0.4</td>
<td>6.4</td>
<td>0 - 0.04 ... 0 - 0.4</td>
</tr>
<tr>
<td>0 - 0.12 ... 1.2</td>
<td>10.5</td>
<td>0 - 0.12 ... 0 - 1.2</td>
</tr>
<tr>
<td>0 - 1 ... 4</td>
<td>30</td>
<td>0 - 1 ... 0 - 4</td>
</tr>
</tbody>
</table>

- Mounting connection: Flange DIN or ANSI (specify size)  
  - Options: F
- Special mounting connections: Example 1 1/2" BSP (specify)  
  - Options: X

## OPTIONS

- Digital local indicator: (3 1/2 digit, programmable)  
  - Options: I
- Intrinsically safe: ATEX II 1 G EEx ia IIC T4  
  - Options: Ex
- HART® Protocol  
  - Options: H
- PROFIBUS-PA  
  - Options: P

## Specials:
Specify, other wetted parts or other cable material  
- Options: G