Foxboro® 244LVP
Intelligent Buoyancy Transmitter for Liquid Level, Interface and Density

244LVP - The Economic Alternative

The 244LVP is suitable for all industry applications, due to a robust modular design, where reliability is equally important as durability and constant high accuracy.

Process wetted parts consist of stainless steel 1.4404 or 1.4571. Displacer is made of SS, PTFE, PTFE+Carbon or Hastelloy C.

The intelligent transmitter 244LVP measures according to the proven Archimedes buoyancy principle: The higher the liquid level, the lighter becomes the displacer.

- For measurements of liquids, at vessels:
  - Liquid level:
    - Measuring range 0 ... 50 mm to 0 ... 3 m
  - At given level:
    - Measuring of density
    - Position of interface of two liquids
  - At process temperatures of −50 ... +120 °C
  - At process pressures of vacuum ... 40 bar
  - At humidity up to 100 %, IP66
  - 2-wire transmitters, with 4-20 mA or HART
  - Nominal widths DN 50 and DN 80 (2 in, 3 in)
  - Operating push buttons at instrument
  - Upper part with LCD turnable to the operator
  - ATEX Certification
## 244LVP
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### Additional Technical Data

**In Process**
- Accuracy ± 0.2 %
- Sensor with no moving parts
- Reliable interface measurement – also at diffuse interface
- Explosion proof and intrinsically safe

**Electronic**
- Output signal linear or customized
- Supply Voltage 12 ... 42 V DC

**Operation**
- At instrument with push buttons
- Digital with Hand Held Terminal HT991 or PC20/PC50 calibration and configuration software
- LCD indicator for measuring values, operating status and configuration

### Influence from Process

<table>
<thead>
<tr>
<th>Factor</th>
<th>影响</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>非常小的影响</td>
</tr>
<tr>
<td>Pressure</td>
<td>非常小的影响</td>
</tr>
<tr>
<td>Steam, Fog</td>
<td>没有影响</td>
</tr>
<tr>
<td>Dielectric constant</td>
<td>没有影响</td>
</tr>
<tr>
<td>Foam</td>
<td>没有影响</td>
</tr>
<tr>
<td>Vibrations</td>
<td>减小由于Smart Smoothing and Damping</td>
</tr>
</tbody>
</table>
| Motion of fluid         |非常小的影响 (如果必要的话，使用保护管或 displacer chamber)
| Diffuse interface       |没有影响 |
| Displacer stroke        |零 (没有位置改变在液位变化)
| Corrosive fluids        |没有影响 (仪器是用耐腐蚀材料制造的) |
| Vessel material         |没有影响 |
| Deposits on vessel      |没有影响 |
| Deposits on displacer   |非常小的影响 |