VEGAPULS 62
Profibus PA

Radar sensor for continuous level measurement of liquids

Area of application

The VEGAPULS 62 is a universally implementable radar sensor for continuous level measurement of liquids. It is suitable for level measurement in storage containers, reactors and process vessels, even under difficult process conditions. With its various antenna versions and materials, VEGAPULS 62 is the optimal solution for almost all applications and processes. Its wide temperature and pressure range makes project planning simple.

Advantages

- Non-contact measurement
- High plant availability, because wear and maintenance-free
- Exact measuring results independent of pressure, temperature, gas and steam

Function

Extremely short microwave impulses are emitted by the antenna system in the direction of the measured product, reflected by the product surface and received back again by the antenna system. The time from emission to reception of the signals is proportional to the level in the vessel. A special time stretching procedure allows reliable and precise measurement of the extremely short signal running times.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Measuring range up to</td>
<td>35 m (114.8 ft)</td>
</tr>
<tr>
<td>Deviation</td>
<td>±2 mm</td>
</tr>
<tr>
<td>Process fitting</td>
<td>Thread from G11/2; 1½ NPT; flanges from DN 50, 2&quot;</td>
</tr>
<tr>
<td>Process pressure</td>
<td>-1 … +160 bar/-100 … +16000 kPa (-14.5 … +2320 psig)</td>
</tr>
<tr>
<td>Process temperature</td>
<td>-200 … +450 °C (-328 … +842 °F)</td>
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<tr>
<td>Ambient, storage and transport temperature</td>
<td>-40 … +80 °C (-40 … +176 °F)</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>9 … 32 V DC</td>
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</table>

Materials

The wetted parts of the instrument are made of 316L, Hastelloy C22, Monell Alloy, stainless steel precision casting 1.4848 or PTFE, PP, PEEK. The process seal is made of FKM, FFKM or graphite. You can find a complete overview of the available materials and seals in the "configurator" on our homepage under www.vega.com/configurator.

Housing versions

The housings are available as single chamber or double chamber version in plastic, stainless steel or aluminium. They are available in protection ratings up to IP 68 (1 bar).

Electronics versions

The instruments are available in different electronics versions. Apart from 4 … 20 mA/HART in two and four-wire version, there are also digital versions with Profibus PA, Foundation Fieldbus and Modbus RTU/Levelmaster possible. Another version is available with integrated accumulator.

Approvals

The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments have also different ship approvals such as e.g. GL, LRS or ABS. You can find detailed information on the existing approvals in the "configurator" on our homepage under www.vega.com/configurator.
**Operation**

The adjustment of the instrument is carried out via the optional indicating and adjustment module PLICSCOM or via a PC with the adjustment software PACTware and respective DTM. An alternative adjustment possibility is the manufacturer-specific adjustment program PDM.

**Electrical connection**

Electronics and connection compartment, single chamber housing

1. Voltage supply, signal output
2. For indicating and adjustment module or interface adapter
3. Selection switch for bus address
4. For external indicating and adjustment unit
5. Ground terminal for connection of the cable screen

You can find details on the electrical connection in the instrument operating instructions on our homepage at [www.vega.com/downloads](http://www.vega.com/downloads).

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions VEGAPULS 62</th>
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<tbody>
<tr>
<td>1 Threaded version</td>
</tr>
<tr>
<td>2 Threaded version with temperature adapter up to +250 °C</td>
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<tr>
<td>3 Flange version</td>
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</tbody>
</table>

**Information**

You can find further information about the VEGA product line on our homepage [www.vega.com](http://www.vega.com).

In the download section under [www.vega.com/downloads](http://www.vega.com/downloads) you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

There, you will also find GSD and EDD files for Profinet PA systems as well as DD and CFF files for Foundation Fieldbus systems.

**Contact**

You can find the VEGA agency serving your area on our homepage [www.vega.com](http://www.vega.com).