VEGAPULS 62
4 … 20 mA/HART four-wire

Radar sensor for continuous level measurement of liquids

Technical data

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<td>Deviation</td>
<td>±2 mm</td>
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<tr>
<td>Process fitting</td>
<td>Thread from G1½; 1½ NPT; flanges from DN 50, 2”</td>
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<tr>
<td>Process pressure</td>
<td>-1 … +160 bar/-100 … +16000 kPa (-14.5 … +2320 psig)</td>
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<tr>
<td>Process temperature</td>
<td>-200 … +450 °C (-328 … +842 °F)</td>
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<td>Ambient, storage and transport temperature</td>
<td>-40 … +70 °C (-40 … +158 °F)</td>
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<td>- Version for low voltage</td>
<td>9.6 … 48 V DC, 20 … 42 V AC, 50/60 Hz</td>
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<td>- Version for mains voltage</td>
<td>90 … 253 V AC, 50/60 Hz</td>
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<tr>
<td>SIL rating</td>
<td>up to SIL2</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](http://www.vega.com/configurator).

Housing versions

The housings are available as double chamber version in plastic, stainless steel or Aluminium. They are available in protection class IP 66/IP 67.

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/Level master 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](http://www.vega.com/configurator).

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.

Specifications:
- Measuring range: 35 m (114.8 ft)
- Deviation: ±2 mm
- Process fitting: Thread from G1½; 1½ NPT; flanges from DN 50, 2”
- Process pressure: -1 … +160 bar/-100 … +16000 kPa (-14.5 … +2320 psig)
- Process temperature: -200 … +450 °C (-328 … +842 °F)
- Ambient, storage and transport temperature: -40 … +70 °C (-40 … +158 °F)
- Operating voltage:
  - Version for low voltage: 9.6 … 48 V DC, 20 … 42 V AC, 50/60 Hz
  - Version for mains voltage: 90 … 253 V AC, 50/60 Hz
- SIL rating: up to SIL2

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**Operation**

The adjustment of the instrument is carried out via the optional indicating and adjustment module PLICSOM or via a PC with the adjustment software PACTware and respective DTM. Further adjustment options are available via HART communicator as well as manufacturer-specific programs such as AMS™ or PDM.

**Information**

You can find further information about the VEGA product line on our homepage www.vega.com. In the download section under 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 Probus PA systems as well as DD and CFF files for Foundation Fieldbus systems.

**Instrument selection**

With the "finder" you can select the most suitable measuring principle for your application: www.vega.com/finder. You can find detailed information on the instrument versions in the "configurator" on our homepage under www.vega.com/configurator.

**Contact**

You can find the VEGA agency serving your area on our homepage www.vega.com.

**Electrical connection**

Connection compartment, double chamber housing

1 Voltage supply
2 4…20 mA signal output active
3 4…20 mA signal output passive

You can find details on the electrical connection in the instrument operating instructions on our homepage at www.vega.com/downloads.

**Dimensions**

Dimensions VEGAPULS 62