**VEGASON 63**

4 … 20 mA/HART four-wire

Ultrasonic sensor for continuous level measurement

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**Application area**

The VEGASON 63 is an ultrasonic sensor for continuous level measurement of liquids or bulk solids. Typical applications are the measurement of liquids in storage vessels or open basins. The sensor is also suitable for continuous level measurement of bulk solids in small vessels up to average-size vessels. The non-contact measuring principle is independent of product properties and enables a setup without medium.

**Advantages**

- Non-contact measurement
- Reliable measurement, independent of product properties
- Proven measurement technique for standard applications

**Function**

Short ultrasonic pulses are emitted by the transducer in the direction of the measured product, reflected by its surface and received back by the transducer. The elapsed time from emission to reception of the signals is proportional to the level in the vessel.

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**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td></td>
</tr>
<tr>
<td>– In liquids up to</td>
<td>15 m (49.21 ft)</td>
</tr>
<tr>
<td>– In bulk solids up to</td>
<td>7 m (22.97 ft)</td>
</tr>
<tr>
<td>Deviation</td>
<td>±6 mm or &lt; 0.2 %</td>
</tr>
<tr>
<td>Process fitting</td>
<td>Compression flange DN 100, mounting strap</td>
</tr>
<tr>
<td>Process pressure</td>
<td>-0.2 … +1 bar/-20 … +100 kPa ( -2.9 … +14.5 psig)</td>
</tr>
<tr>
<td>Process temperature</td>
<td>-40 … +80 °C (-40 … +176 °F)</td>
</tr>
<tr>
<td>Ambient, storage and transport</td>
<td>-40 … +70 °C (-40 … +158 °F)</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
</tr>
<tr>
<td>Operating voltage</td>
<td>20 … 72 V DC, 20 … 253 V AC, 50/60 Hz</td>
</tr>
</tbody>
</table>

**Materials**

The wetted parts of the instrument are made of UP or 316Ti. The process seal is made of EPDM. You will 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 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 the two-wire electronics with 4 … 20 mA/HART, a four-wire version and two purely digital versions with Profibus PA and Foundation Fieldbus are available.

**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. Further adjustment options are available via HART communicator as well as manufacturer-specific programs such as AMS™ or PDM.

**Maße**

Maße VEGASON 63

**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 Profibus 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](http://www.vega.com/finder).

You can find detailed information on the instrument versions in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

**Contact**

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

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