VEGAFLEX 63
Profibus PA

TDR sensor for continuous level measurement

Application area
VEGAFLEX 63 is a level sensor for continuous level measurement. It is suitable for liquids in practically all areas of industry. Typical applications are measurements of aggressive and corrosive liquids as well as applications in the food processing/pharmaceutical industry. All instruments are preset to the ordered sensor length.

Advantages
- Easy setup without adjustment
- Independent of product properties
- Insensitive to dust, vapour, buildup and condensation
- Good cleanability and very high chemical resistance
- High accuracy
- SIL qualified

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Measuring range</td>
<td></td>
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<tr>
<td>– Rod version</td>
<td>up to 4 m (13.12 ft)</td>
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<tr>
<td>– Cable version</td>
<td>up to 32 m (105 ft)</td>
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<tr>
<td>Measuring accuracy</td>
<td>± 3 mm</td>
</tr>
<tr>
<td>Process fitting</td>
<td>Flanges from DN 25, Tri-Clamp from 1¼&quot;, bolting from DN 32</td>
</tr>
<tr>
<td>Process pressure</td>
<td>-0.5 … +16 bar/ -50 … +1600 kPa (-7.3 … +232 psig)</td>
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<tr>
<td>Process temperature</td>
<td>-40 … +150 °C (-40 … +302 °F)</td>
</tr>
<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 fully PFA insulated. You can find a complete overview of the available materials and seals in the "configurator" on our homepage at 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 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. An alternative adjustment possibility is the manufacturer-specific adjustment program PDM.

**Electrical connection**

Electronics and connection compartment, single chamber housing

1. Plug connector for VEGACONNECT (I²C interface)
2. Spring-loaded terminals for connection of the external indication VEGADIS 61
3. Ground terminal for connection of the cable screen
4. Spring-loaded terminals for voltage supply and signal output

You can find details on the electrical connection in the operating instructions of the instruments on our homepage under www.vega.com/downloads.

**Dimensions**

![Dimensions Diagram]

VEGAFLEX 63

1. Rod version with flange connection
2. Cable version with Tri-Clamp
3. Instrument version with bolting

**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 Profinet 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.