VEGACAL 66
Profibus PA

Capacitive cable electrode for continuous level measurement

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span</td>
<td>up to 32 m (105 ft)</td>
</tr>
<tr>
<td>Process fitting</td>
<td>Thread from G1, 1 NPT, flanges from DN 50, 2&quot;</td>
</tr>
<tr>
<td>Process pressure</td>
<td>-1 ... +40 bar/-100 ... +4000 kPa (-14.5 ... +580 psig)</td>
</tr>
<tr>
<td>Process temperature</td>
<td>-50 ... +150 °C (-58 ... +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>
</tr>
<tr>
<td>SIL rating</td>
<td>up to SIL2</td>
</tr>
</tbody>
</table>

Materials

The wetted parts of the instrument are fully PTFE insulated. The gravity weight is made of stainless steel. 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 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, there are two pure digital versions with Profibus PA and Foundation Fieldbus possible as well as one version for connection to a signal conditioning instrument.

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.

Area of application

The VEGACAL 66 level sensor for use in conductive liquids and bulk solids. The cable electrode is fully insulated and the proven construction ensures high functional safety.

Advantages

- Long lifetime and low maintenance requirement through robust mechanical construction
- Savings through simple mounting and setup
- Maximum use of the vessel, because measurement over the complete probe length

Function

Sensor and vessel form the two electrodes of a capacitor. A capacitance change caused by a level change is evaluated by the integrated electronics and converted into a respective output signal. The level measurement is carried out via the complete sensor length without a dead zone.
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 instrument operating instructions on our homepage at www.vega.com/downloads.

Dimensions

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 Proibus 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.