Suspension pressure transmitter with METEC® measuring cell

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring ranges</td>
<td>+0.1 ... +25 bar/+10 ... +2500 kPa (+1.45 ... +363 psig)</td>
</tr>
<tr>
<td>Smallest measuring range</td>
<td>+0.1 bar/+10 kPa (+1.45 psig)</td>
</tr>
<tr>
<td>Deviation</td>
<td>&lt; 0.1 %</td>
</tr>
<tr>
<td>Process fitting</td>
<td>Straining clamp, threaded fitting G1½, thread G1½ (DIN 3852-A) or 1½NPT (ASME B1.20.1), flanges from DN 50</td>
</tr>
<tr>
<td>Process temperature</td>
<td>-12 ... +100 °C (-10 ... +212 °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>12 ... 36 V DC</td>
</tr>
<tr>
<td>SIL rating</td>
<td>up to SIL2</td>
</tr>
</tbody>
</table>

Materials

The transmitter of the instrument is made of 316L. The process diaphragm consists of Hastelloy C276, the suspension cable of FEP. 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 (25 bar) with external electronics.

Electronics versions

The instruments are available in different electronics versions. Apart from the two-wire electronics with 4 ... 20 mA/HART, also two purely digital versions with Profinet PA and Foundation Fieldbus are possible.

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 VEGABAR 67 is a suspension pressure transmitter for level measurements in wells, basins and open vessels. The VEGABAR 67 offers the option of extremely small measuring ranges from 0.1 bar upwards. Measured products are liquids and viscous products with higher temperatures.

Advantages

- Excellent measuring accuracy even with quickly changing process temperatures
- High plant availability through vacuum resistant version
- Very good cleanability and high chemical resistance through adapted materials

Function

The heart of the pressure transmitter is the pressure measuring cell that transforms pressure into an electrical signal. This pressure-dependent signal is converted into a standard output signal by the integrated electronics. The metallic METEC® measuring cell allows fully welded versions and also covers higher measuring ranges. The measuring cell is also equipped with a temperature sensor. The temperature value can be displayed via the indicating and adjustment module or processed via the signal output.
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.

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

Dimensions VEGABAR 67
1 Version with suspension cable and threaded fitting unassembled G1½ A
2 Threaded version G1½ A, suspension cable
3 Threaded version G1½ A, connection tube

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 will 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.