VEGABAR 55
4 … 20 mA

Pressure transmitter with METEC® measuring cell

Area of application

The VEGABAR 55 is a pressure transmitter for pressure and level measurements in the chemical, food processing and pharmaceutical industry. The VEGABAR 55 offers the option of extremely small measuring ranges from 0.1 bar upwards. Products are liquids and viscous products with higher temperatures.

Advantages

- Excellent measuring accuracy even with strongly fluctuating process temperatures
- High measurement certainty through vacuum resistant version
- Very good cleanability and high chemical resistance through high resistance diaphragm 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 covers also higher temperature ranges.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</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; 0.2 %, optionally up to &lt; 0.075 %</td>
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<tr>
<td>Process fitting</td>
<td>Thread from ½” or ½ NPT, flanges from DN 20, fittings for the food processing industry</td>
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<tr>
<td>Process temperature</td>
<td>-12 … +200 °C (-10 … +392 °F)</td>
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<tr>
<td>Ambient, storage and transport temperature</td>
<td>-40 … +80 °C (-40 … +176 °F)</td>
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<tr>
<td>Operating voltage</td>
<td>12 … 36 V DC</td>
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<tr>
<td>SIL rating</td>
<td>up to SIL2</td>
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</tbody>
</table>

Materials

The process fitting of the instrument is made of 316L. The process diaphragm is available in Hastelloy C276, also with gold or gold/rhodium coating.

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 or 4 … 20 mA/HART, two purely digital versions with Profinet 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 corresponding DTM.

**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 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. 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.

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**Electrical connection**

Electronics and connection compartment, single chamber housing

1. Spring-loaded terminals for voltage supply
2. Ground terminal for connection of the cable screen

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

**Dimensions**

Dimensions VEGABAR 55

1. Threaded version G1½ A
2. Threaded version G1½ A, 200 °C
3. Tri-Clamp version 2

![Dimensions Diagram]