

VEGABAR 65

Foundation Fieldbus

Pressure transmitter with front-flush metal diaphragm



Application area

VEGABAR 65 is a pressure transmitter for use in the chemical, food processing and pharmaceutical industries. Depending on the version, it is used for level, gauge, absolute pressure or vacuum measurement. Measured products are gases, vapours and liquids, also those with higher temperatures.

Advantages

- Front-flush, metal diaphragm
- Good cleanability and high vacuum resistance
- High chemical resistance
- Deviation < 0.075 %
- Small measuring ranges up to 0.1 bar

Function

The METEC® measuring cell is used as sensor element. It consists of the ceramic-capacitive CERTEC® measuring cell as well as a temperature-compensated isolating system. The hydrostatic pressure of the medium or the process pressure cause a capacitance change in the measuring cell via the metal process diaphragm and the isolating liquid. This change is converted into a respective output signal.

Technical data

Measuring ranges	-1 ... 25 bar (-14.5 ... 363 psig)
Smallest measuring range	0.1 bar (1.45 psig)
Deviation	< 0.075 %
Process fitting	Thread from 1/2", flanges from DN 20, fittings for the food processing industry
Process temperature	-12 ... +200 °C (-10 ... +392 °F)
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	9 ... 32 V DC

Materials

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

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 classes up to IP 68 (25 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 possible.

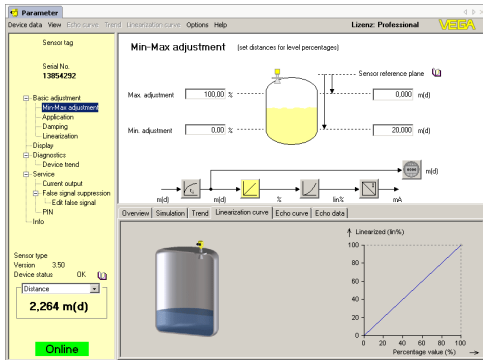
Approvals

The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX, FM, CSA and IEC. The instruments have also different ship approvals such as e.g. GL, LRS or ABS.

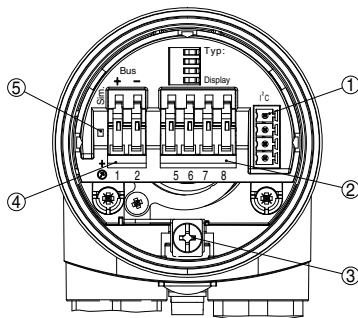
You can find detailed information on the existing approvals in the "configurator" on our homepage under www.vega.com/configurator.

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. Another adjustment possibility is a configuration tool for Foundation Fieldbus instruments.



Electrical connection

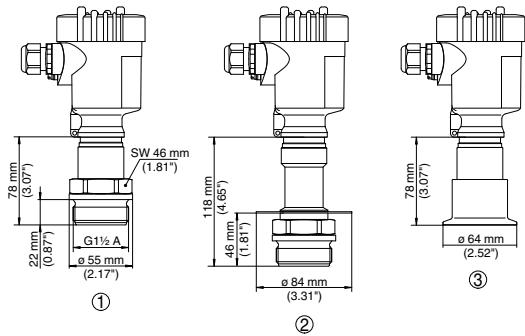


Electronics and connection compartment, single chamber housing

- 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
- 5 Simulation switch ("on" = mode for simulation release)

You can find details on the electrical connection in chapter "Connecting to power supply" in the operating instructions of the instrument. You can download the operating instructions from our homepage at www.vega.com/downloads.

Dimensions



Dimensions VEGABAR 65

- 1 Thread G1½ A front-flush
- 2 Thread G1½ A front-flush - 200 °C
- 3 Tri-Clamp 2"

Information

You can find further information about the VEGA product line on our homepage www.vega.com. You can find free-of-charge operating instructions, product information, brochures, approval documents, instrument drawings, etc. in the download section under www.vega.com/downloads. There, you will also find GSD and EDD files for Profibus PA systems as well as DD and CFF files for Foundation Fieldbus systems.

Device selection

With the "finder" you can select the measuring principle suiting 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.