

VEGAWELL 52

4 ... 20 mA/HART Pt 100

Suspension pressure transmitter for continuous level measurement of liquids



Application area

VEGAWELL 52 is suitable for continuous level measurement of liquids in water/waste water facilities, deep wells and in the shipbuilding industry.

Advantages

- Dry, ceramic-capacitive CERTEC® measuring cell
- High abrasion and overload resistance
- Integrated overvoltage protection
- Long-term stability better than 0.1 %/2 years

Function

The ceramic CERTEC® measuring cell is the heart of VEGAWELL 52. The hydrostatic pressure of the liquid column causes via the ceramic diaphragm a capacitance change in the measuring cell. This change is converted into a standardised 4 ... 20 mA signal. The complete measuring cell consists of high purity ceramic and is characterised, apart from its excellent long-term stability, by very high overload resistance.

Technical data

Measuring ranges	-1 ... 25 bar (-14.5 ... 363 psig)
Smallest measuring range	0.1 bar (1.45 psig)
Deviation	< 0.2 %, < 0.1 %
Process fitting	Straining clamp, threaded fitting G1½ A, thread G1½ A and G1 A
Process temperature	-20 ... +80 °C (-4 ... +176 °F)
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	9.6 ... 36 V DC

Materials

The transmitter of the instrument is made of 316L, Duplex, Titanium or PVDF. The process seal consists of FKM, FFKM or EPDM, the suspension cable of PE, PUR or FEP.

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 version in plastic or stainless steel precision casting.

They are available with protection rating up to IP 66/IP 67.

Electronics versions

The instruments are available in different electronics versions. Apart from the analogue/digital two-wire electronics 4 ... 20 mA/HART Pt 100, a pure analogue version 4 ... 20 mA is also possible.

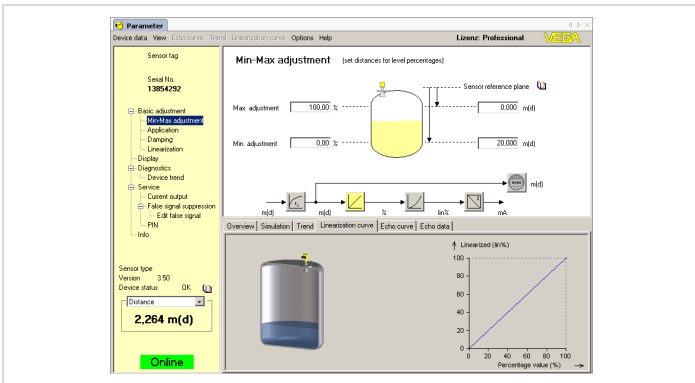
Approvals

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.

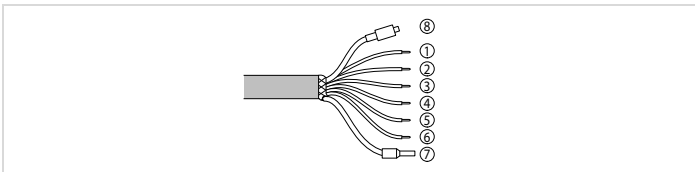
You can find detailed information on the existing approvals in the "configurator" on our homepage under www.vega.com/configurator.

Operation

The adjustment of the instrument is carried out via the external indicating and adjustment module VEGADIS 62 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

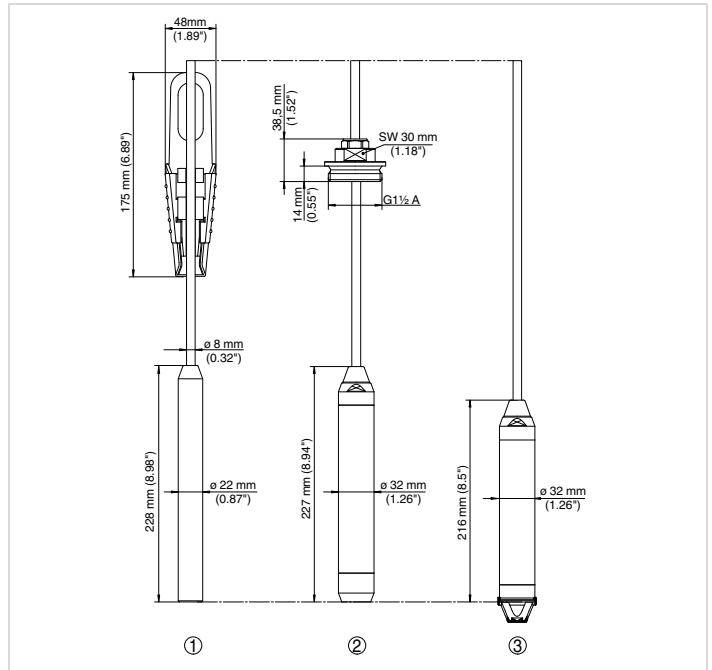


Wire assignment, connection cable

- 1 Brown (+): to power supply or to the processing system
- 2 Blue (-): to power supply or to the processing system
- 3 White: for processing of the integrated Pt 100 (power supply)
- 4 Yellow: for processing of the integrated Pt 100 (measurement)
- 5 Red: for processing of the integrated Pt 100 (measurement)
- 6 Black: for processing of the integrated Pt 100 (power supply)
- 7 Shielding
- 8 Breather capillaries with filter element

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 VEGAWELL 52

- 1 Version with straining clamp
- 2 Version with threaded fitting, unassembled G1 1/2 A
- 3 Standard version

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.

Device selection

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