

VEGAWELL 52

4 ... 20 mA

Suspension pressure transmitter for 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
- Excellent long-term stability

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	+0.1 ... +25 bar/+10 ... +2500 kPa (+1.45 ... +363 psig)
Smallest measuring range	+0.1 bar/+10 kPa (+1.45 psig)
Deviation	< 0.1 %
Process fitting	Straining clamp, threaded fitting unassembled from G1 A (ISO 228-1) or from 1 NPT, thread G1½ A (ISO 228-1) or from 1½ NPT on the housing
Process temperature	-20 ... +80 °C (-4 ... +176 °F)
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	8 ... 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 housing is available as single chamber version of plastic or stainless steel precision casting. It is 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, there is also a pure analogue version 4 ... 20 mA possible.

Approvals

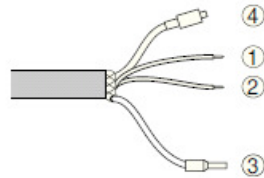
The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments have also different ship approvals such as e.g. GL, LRS or ABS.

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

Operation

An adjustment of the instrument is not necessary and not possible. The measuring range corresponds to the value set at the factory.

Electrical connection

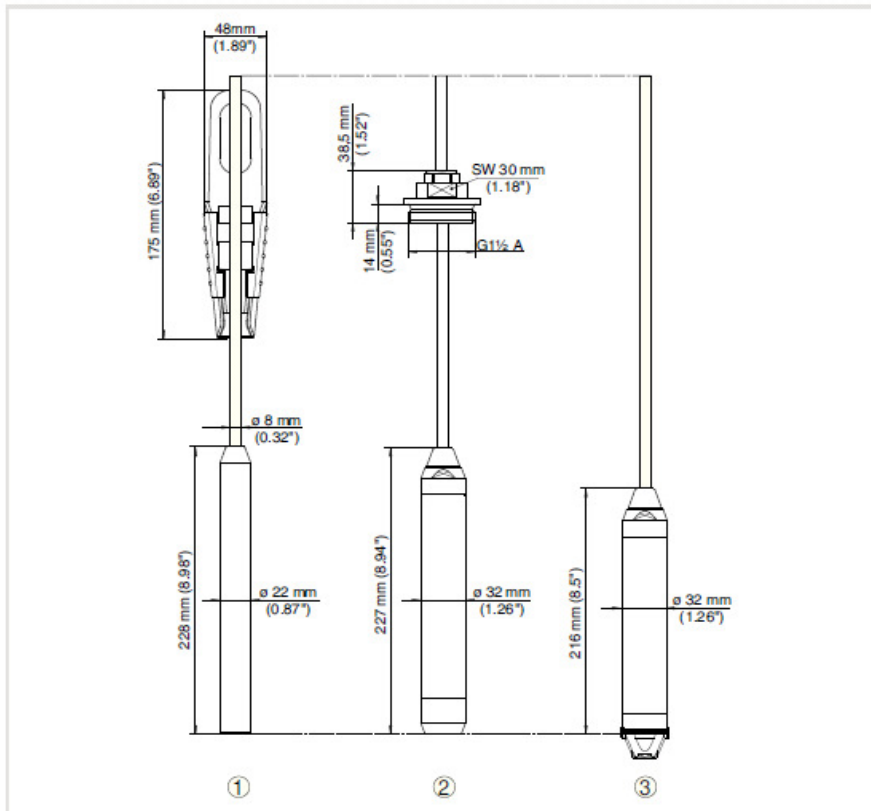


Wire assignment, suspension cable

- 1 Blue (-): to power supply or to the processing system
- 2 Brown (+): to power supply or to the processing system
- 3 Shielding
- 4 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, for deep wells
- 3 Standard version