VEGAPULS 61
4 ... 20 mA/HART two-wire
Radar Sensor for Continuous Level Measurement

Application Area

VEGAPULS 61 is suitable for applications in liquids in smaller vessels under easy process conditions. The application possibilities can be found in the virtually all areas of industry.

Advantages

• Non-contact measurement
• Simple mounting
• Wear and maintenance-free
• Unaffected by pressure, temperature, gas, and dust
• High accuracy

Function

Extremely short microwave impulses are emitted by the antenna system in the direction of the measured product, reflected by the product surface, and received back again by the antenna system. The time from emission to reception of the signals is proportional to the level. A special processing procedure ensures reliable and precise measurement.

Technical Data

Measuring Range
- Encapsulated Antenna System up to 10 m (32.81 ft.)
- Plastic Horn Antenna up to 20 m (65.62 ft.)
Deviation ± 2 mm
Process Fitting Thread G1½ A or 1½ NPT, flange from DN 80 or ANSI 2” mounting strap
Process Pressure -1 ... 2 bar
(-100 ... 200 kPa/-14.5 ... 29.0 psig)
Process Temperature -40 °C ... +80 °C (-40 °F ... 176 °F)
Ambient, Storage and Transport Temperature -40 °C ... +80 °C (-40 °F ... 176 °F)
Operating Voltage 9.6 ... 36 VDC

Materials

The wetted parts of the instrument are made PVDF or PP. The process seal is made from FPM.

Housing Versions

The housings are available as single chamber or double chamber version in plastic, stainless steel, or aluminum. They are available in protection ratings up to IP 68 (1 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 Profinbus PA and Foundation Fieldbus are available.

Approvals

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

The adjustment of the instrument is carried out via the optional indicating and adjustment module PLCSCOM 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.

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**Dimensions**

Dimensions VEGAPULS 61

1. **Version with Encapsulated Antenna System**
2. **Version with Plastic Horn Antenna**
3. **Mounting Strap**
4. **Adapter Flange**

**Information**

You can find additional information about VEGA product offerings from our home page, www.vega-americas.com. Brochures, operating instructions, quick reference guides, specification sheets, and drawings are also available from the Downloads section of our homepage.

**Device Selection**

The Downloads section of our home page, www.vega-americas.com provides application data sheets so you can select the measuring principle or product for your particular application.

**Contact**

Please call 1-800-543-8668, Monday through Friday, 8:00 A.M.-5:00 P.M., EST (Eastern Standard Time) if you have any questions. For emergencies after hours, call the number above and follow the voice mail instructions.

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**Electrical Connection**

Electronics and connection compartment, single chamber housing

1. **Voltage Supply/Signal Output**
2. **For Indicating and Adjustment Module or Interface Adapter**
3. **For External Indicating and Adjustment Unit**
4. **Ground Terminal for Connection of the Cable Screen**