

VEGAPULS C 11**Two-wire 4 ... 20 mA****Radar sensor for continuous level measurement****Technical data**

Measuring range up to	10 m (32.81 ft)
Deviation	≤ 5 mm
Beam angle	8°
Measuring frequency	W-band (80 GHz technology)
Output signal	4 ... 20 mA
Process fitting	Thread G1½, 1½ NPT, R1½
Mounting connection	Thread G1, 1 NPT, R1
Process pressure	-1 ... 3 bar (-100 ... 200 kPa/-14.5 ... 43.51 psig)
Process temperature	-40 ... +60 °C (-40 ... +140 °F)
Ambient temperature	-40 ... +60 °C (-40 ... +140 °F)
Bluetooth standard	Bluetooth 5.0
Bluetooth range	typically 25 m (82 ft)
Operating voltage	12 ... 35 V DC
Protection rating	IP66/IP68 (3 bar, 24 h) acc. to IEC 60529, Type 4X/6P acc. to UL 50

Application area

The VEGAPULS C 11 is the ideal radar sensor for non-contact level measurement in all standard applications where a high degree of protection is required. It is particularly suitable for level measurement in water treatment, pumping stations and rain overflow basins, for flow measurement in open channels and level monitoring and for many other industrial applications.

The sensor is suitable both for measuring liquids and for maintenance-free use on small bulk silos or bulk solids containers.

Your benefit

- Maintenance-free operation due to non-contact 80 GHz radar technology
- Exact measuring results independent of product, process and ambient conditions
- Low-cost sensor for simple measuring tasks

Function

The device emits a continuous radar signal through its antenna which is modulated in its frequency. The emitted signal is reflected by the medium and received by the antenna as an echo.

The frequency difference between the emitted and received signal is proportional to the distance and depends on the filling height. The determined filling height is converted into a respective output signal and output as measured value.

Materials

The wetted parts of the instrument are made of PVDF. The process seal is made of FKM. The connection cable is PVC insulated.

A complete overview of the available materials and seals can be found on our homepage under "Products" and "Configure & Order".

Housing versions

The housing is optimized for applications in the water/waste water industry and manufactured of PVDF. Due to the encapsulated cable gland, protection rating IP66/IP68 (3 bar) is achieved.

Electronics versions

The devices are constructed with two-wire electronics 4 ... 20 mA.

Approvals

Worldwide approvals are available for VEGA instruments, e.g. for use in hazardous areas, on ships or in hygienic applications.

For approved devices (e.g. with Ex approval) the technical data in the respective safety instructions are applicable.

You can find detailed information in the available approvals on our homepage under "Downloads".

Adjustment

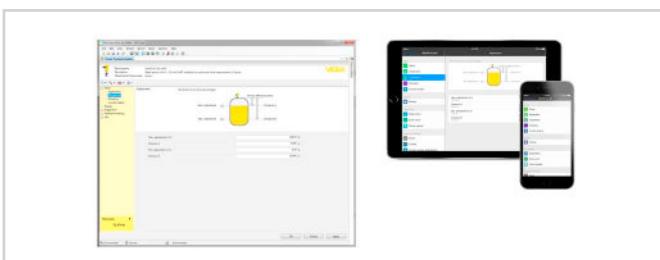
Wireless adjustment via Bluetooth

The Bluetooth version of the device enables wireless connection to smartphones/tablets (iOS/Android) or Windows PCs.



Wireless connection to standard operating devices

Operation is via a free app from the "Apple App Store", the "Google Play Store" or the "Baidu Store". Alternatively, adjustment can also be carried out via PACTware/DTM and a Windows PC.



Adjustment via PACTware or app

Electrical connection

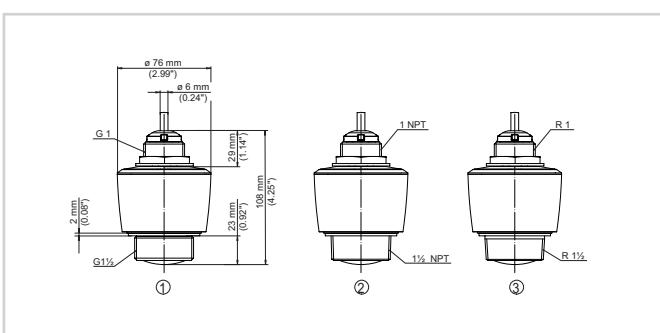


Wire assignment in permanently connected connection cable

- 1 Brown (+) to voltage supply or to the processing system
- 2 Blue (-) to voltage supply or to the processing system

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

Dimensions



Dimensions VEGAPULS C 11

- 1 Thread G1 1/2
- 2 Thread 1 1/2 NPT
- 3 Thread R 1 1/2

Specification sheet

Mounting accessories

For the VEGAPULS C 11 the suitable mounting accessories for ceiling or wall mounting is available.



Example mounting strap - wall mounting with adjustable sensor holder

You can find further information on the mounting accessory on our homepage.

Information

You can find further information on the VEGA product line on our homepage.

In the download section of our homepage you'll find operating instructions, product information, industry brochures and approval documents as well as device and adjustment software.

Instrument selection

On our homepage under "Products" you can select the suitable measuring principle and instrument for your application.

There you will also find detailed information on the available device versions.

Contact

You can find your personal contact person at VEGA on our homepage under "Contact".