



Level | Point level | Pressure

Compact sensors for factory automation



Profit from many years of VEGA experience in measurement technology

High-quality sensor technology for level, point level and pressure is the best guarantee for efficient and reliable automation. Take advantage of VEGA's expertise in the implementation of innovative measurement technology solutions.

With over 60 years of user partnerships in the field of process automation, VEGA has built up extensive know-how for solving the most demanding of measurement tasks. Now, by transferring this knowledge to factory automation, it offers customers a comprehensive range of compact level and pressure sensors with IO-Link.

Compact sensors from a single source

- Accessories and fittings compatible with the entire IO-Link instrument series
- Reduced stock-holding holding
- Extremely simple setup, thanks to universal presets
- Reliable monitoring of level, point level and pressure
- Easy visualisation enabled by 360° status display

The complete IO-Link instrument family

In addition to point level and pressure, VEGA is now rounding out the IO-Link portfolio for factory automation with a radar level measurement sensor.

- This now means a range of sensors with IO-Link communication are available for level, point level and pressure in the field of factory automation
- This compact IO-Link family is fully equipped with versatile hygienic adapters

New addition:

The VEGAPULS 42 continuous radar level sensor

- Designed and optimised for vessels up to 15 metres high
- Capable of handling very fast level changes
- Experience from over 30 years of technology leadership in radar level measurement
- The best radar chip available on the market, featuring the largest dynamic range and maximum bandwidth available




Level measurement with radar


The right solution for:


- Small vessels – with no blocking distance (dead band)
- Vessels with internal fittings and agitators, thanks to non-contact measurement
- Reliable measurement and control – independent of process conditions
- Applications with condensation, buildup or turbulent surfaces


The radar level sensor VEGAPULS 42 optimized for use in factory automation



360° status display 

On-site display with VDMA operation and super-bright 360° status display 

All-metal housing 



- VEGA Tools App, PACTware/DTM, IODD
- Three-wire: IO-Link, PNP/NPN, 4 ... 20 mA (active)
- Wireless setup with Bluetooth
- M12 plug connection
- Protection class IP66/67/69
- Measuring range up to 15 m
- Measurement accuracy ± 2 mm
- Temperature range -40 °C ... +130 °C/15 min @ +150 °C steam
- Pressure range -1 ... +16 bar
- Standard thread ¾", 1" or universal connection for hygienic adapter G1"

With VEGAPULS 42, the advantages of radar measurement technology are available to a greater variety of processes and industries, enabling even more potential for factory automation. Here, radar offers the best choice for continuous, non-contact level measurement or point level switching. Because, unlike ultrasonic sensors for example, radar technology is not affected by the process conditions and operating environment.

IO-Link with Smart Sensor Profile 2

- Configuration and parameters according to the standardised IODD system
- Adjustment data from other sensors transferred 1:1, regardless of the measuring principle

CONTINUOUS LEVEL MEASUREMENT

VEGAPULS 42

Non-contact level measurement and point level with radar in applications with liquids and bulk solids



SIGNAL OUTPUT

Three-wire: IO-Link, PNP/NPN, 4 ... 20 mA (active)

PROCESS FITTINGS

Standard thread and universal connection for hygienic adapter

PROCESS TEMPERATURE

-40 °C ... +130 °C/15 min @ +150 °C steam

PROCESS PRESSURE

-1 ... +16 bar

ADJUSTMENT

VEGA Tools App, PACTware/DTM, IODD

THE VEGA PORTFOLIO FOR FACTORY AUTOMATION

POINT LEVEL DETECTION



VEGASWING 51 | 53

Vibrating level switch for liquids

SIGNAL OUTPUT

IO-Link, transistor, contactless switch

PROCESS FITTINGS

Standard thread and universal connection for hygienic adapter

PROCESS TEMPERATURE

-40 °C ... +150 °C

PROCESS PRESSURE

-1 ... +64 bar



VEGAPOINT 10 | 20 | 30

Capacitive level switch for liquids and bulk solids

SIGNAL OUTPUT

Three-wire: IO-Link, PNP/NPN

PROCESS FITTINGS

Standard thread and universal connection for hygienic adapter

PROCESS TEMPERATURE

-40 °C ... +115 °C/
1 h @ +135 °C steam

PROCESS PRESSURE

-1 ... +64 bar

PRESSURE MEASUREMENT



VEGABAR 10 | 20 | 30

Pressure sensors with metallic or ceramic measuring cell

SIGNAL OUTPUT

Two-wire: 4 ... 20 mA
Three-wire: IO-Link, PNP/NPN, 4 ... 20 mA (active)

PROCESS FITTINGS

Standard thread and universal connection for hygienic adapter

PROCESS TEMPERATURE

-40 °C ... +130 °C/
1 h @ +135 °C steam

PROCESS PRESSURE

-1 ... +1000 bar



ALWAYS THE RIGHT FIT

Standardised hygienic adapters for all compact IO-Link sensors

The standardised hygienic adapters are suitable for all compact IO-Link sensors. They have all the important approvals for the food and pharmaceutical industry worldwide, such as 3A, FDA and EHEDG.

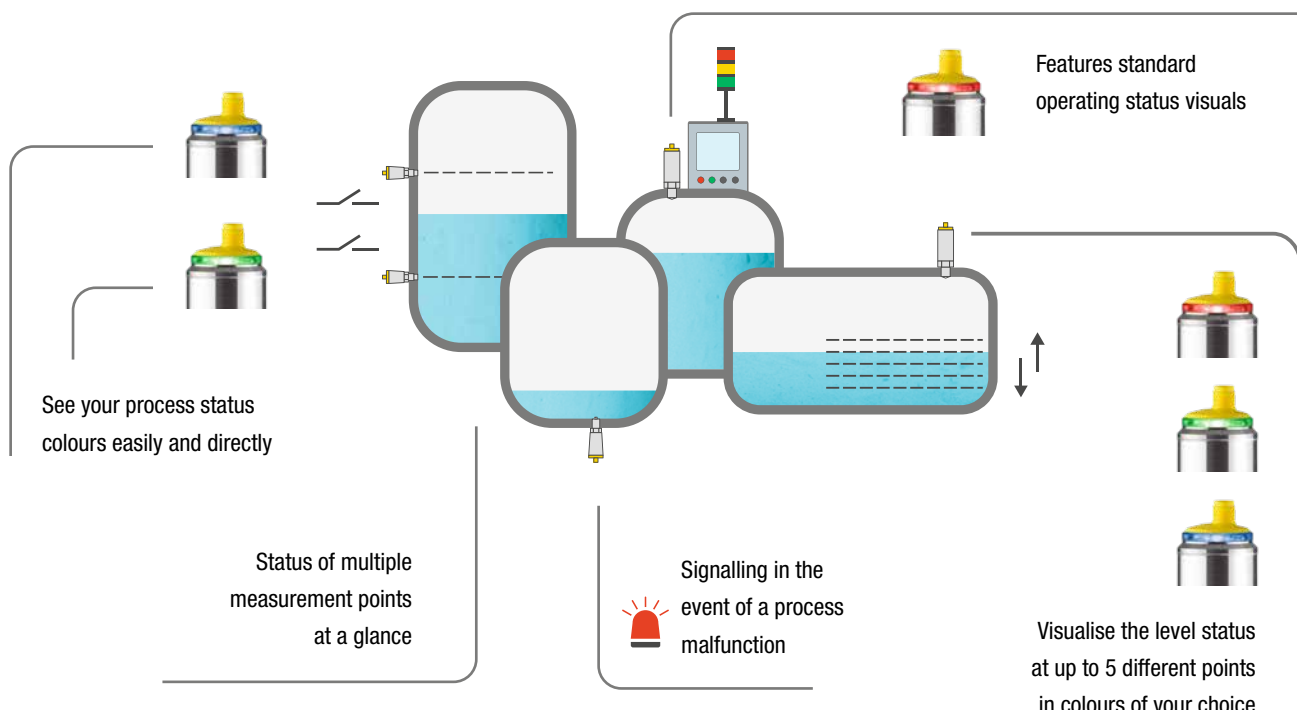


ALWAYS VISIBLE

360° status display for level, point level and pressure

There is no easier way to directly view the operating status. Thanks to a bright 360° illuminated ring, the display can be seen immediately from any direction and is easily recognisable, even in daylight.

In one glance you can easily see how your process is running and if the sensor is operating reliably: The ideal combination of simple status recognition and maximum process certainty.



SIMPLE SETUP AND OPERATION WITH VEGA TOOLS APP



The VEGA Tools app enables wireless adjustment of all VEGA instruments equipped with Bluetooth.

All relevant information on all instruments can be called up by scanning the data matrix code or the barcode on the type label or by entering the serial number.

Direct access to the VEGA Tools app:



Backup and Restore

All sensor data secured: Save sensor backups in myVEGA free of charge for an unlimited period of time.



vega.com/vegapuls42

VEGA HOME OF VALUES