



VEGA pressure measuring instruments – innovative solutions ensure precision and long-term stability

Part 2: Self-monitoring and clever solutions for differential pressure applications.

Whether in the chemical, pharmaceutical, food or other process industries: Alongside temperature, pressure is one of the most important process variables. Pressure sensors therefore play a central role in process control. Accuracy and reliability are important requirements on pressure measurement. We present the special features of VEGA pressure measuring instruments in two blog posts.

VEGA offers a wide range of pressure measuring instruments that are defined by special technical features and innovative solutions. This article provides a detailed overview of the technological advantages and possible applications of VEGA pressure transmitters, with a special focus on self-monitoring as well as solutions for differential pressure measurement.

Innovative solutions and extraordinary design features are what make VEGA pressure sensors so special: Characterised by long-term stability and low maintenance costs, they enhance process integrity, even when deployed in aggressive media and high-pressure applications.

Clever solutions for differential pressure and absolute pressure



VEGADIF 85 – simple setup and flexible installation: Setting up conventional differential pressure sensors and putting them into operation is often very complicated. VEGADIF 85 simplifies this process considerably: With either VEGA Tools app or PACTware, sensors can be set up easily via Bluetooth or DTM. Also, the electronics can be mounted separately from the sensor, which is advantageous in inaccessible, very wet or dirty environments and makes calibration easier.

Absolute pressure measurement and totaliser: With VEGADIF, a second current output enables simultaneous transmission of the differential pressure and the absolute pressure on the low pressure side. Quantity and mass flow measurements can be digitally output and easily analysed via an integrated totaliser. This enables extended process monitoring with just one sensor.

Electronic differential pressure system: The eDP system from VEGA combines the advantages of individual ceramic and metallic measuring cells with differential pressure measurement. Metallic cells are recommended for eDP applications in humid or cold conditions, while ceramic is used for aggressive media. The system can also carry out density-compensated level measurement by having two sensors measure level and density simultaneously and automatically adjust themselves. This makes it possible to measure level and density accurately with just one transmitter, and output those two values. And don't forget: VEGA's eDP system also supports digital protocols like Profibus PA and Foundation Fieldbus.

Hydrostatic pressure sensor VEGAWELL: Whether it's in the water/wastewater sector, or seawater applications such as draught or level measurement in ballast-water tanks: VEGAWELL hydrostatic pressure sensors are indispensable in harsh environments, offshore as well as onshore. Thanks to integrated overvoltage protection, they guarantee high system availability, maximum reliability through the optimal overload and vacuum resistance of the ceramic measuring cell, as well as extraordinary versatility through the use of robust housing and cable versions, that meet the needs of the most challenging conditions. VEGAWELL, long an integral part of VEGA's portfolio, is one of the best sensors on the market for this type of application.

Software and interfaces



VEGA instruments offer decisive advantages, not only in terms of hardware, but also in terms of adjustment and operation.

Bluetooth communication and simple configuration: All sensors can be configured and backed up via Bluetooth using the free VEGA Tools app. This makes setup and adjustment much easier, even in hard-to-reach places.

LED status indication: The compact VEGABAR 28/29 and 38/39 models are equipped with a clearly visible LED ring that displays the instrument status in real time. This makes it very easy to monitor process as well as sensor status.

Conclusion

With its well-rounded portfolio of pressure transmitters, VEGA sets standards that combine precision, durability and innovation. Whether ceramic, metallic or differential pressure sensors – the solutions impress users with features that are unique on the market. They can handle high pressures, aggressive media and other conditions found in the most extreme applications. This results in optimal processes that ensure high operating efficiency and increased safety over the long term.

In the first part of the blog post, we inform you about the unique selling points of ceramic and metallic pressure measuring cells from VEGA.

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