Specification sheet

VEGABAR 29

Two-wire 4 … 20 mA

Pressure sensor with metallic measuring cell

Technical data

Measuring ranges	-1 … +1000 bar/-100 … +100 MPa (-14.5 … +14500 psig)
Smallest measuring range	0.4 bar/40 kPa (5 psig)
Deviation	< 0.3 %
Output signal	4 … 20 mA
Process fitting	Thread from G½, ½ NPT, hygienic fittings
Process temperature	-40 … +130 °C (-40 … +266 °F)
Ambient, storage and transport temperature	-40 … +70 °C (-40 … +140 °F)
Operating voltage	12 … 35 V DC

Materials

The wetted parts of the instrument such as process fitting and measuring diaphragm are made of 316L. The process seal is made of Klingersil C-4400.

You will find a complete overview of the available materials and seals in the "*Configurator*" at www.vega.com and "*VEGA Tools*".

Housing versions

The housing is equipped with plug connector according to ISO 4400, M12 x 1 or direct cable outlet.

It is available with protection ratings up to IP68 (0.5 bar)/IP69.

Electronics versions

In addition to the two-wire electronics 4 … 20 mA, three-wire electronics with I/O link as well as 4 … 20 mA (active) and transistor outputs are also possible.

Depending on the electronics, the connection is made via ISO 4400, M12 x 1 plug or direct cable outlet.

Application area

The pressure transmitter and switch VEGABAR 29 records the measured values of liquids and gases with high precision even under high pressures, especially when high demands are placed on robustness and hygiene. The standardized, uniform design ensures reduced installation effort.

Your benefit

- Simple stock keeping due to configurable signal output
- Coloured 360° switching status display
- Comfortable wireless setup and diagnosis via Bluetooth with smartphone

Function

The heart of the pressure transmitter is the completely welded, metallic measuring cell transforming the pressure via the integrated electronics into a standardized output signal.

For measuring ranges up to 40 bar, a piezoresistive sensor element with internal transmission liquid is used. From 100 bar a strain gauge sensor element on the rear of the stainless steel diaphragm is used. This dry system operates without additional isolating liquid.
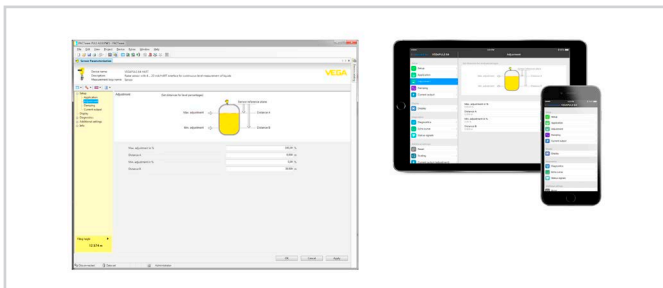
Adjustment

The optional Bluetooth version of the instrument enables a wireless connection to standard adjustment tools. This can be smartphones/tablets with iOS or Android operating system or PCs with PACTware and Bluetooth USB adapter.
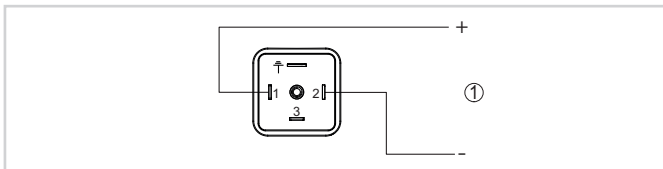
Wireless connection to standard operating devices

Adjustment is hence carried out via a free-of-charge app from the Apple App Store, the Google Play Store resp. the Baidu Store or via the adjustment software PACTware and respective DTM.
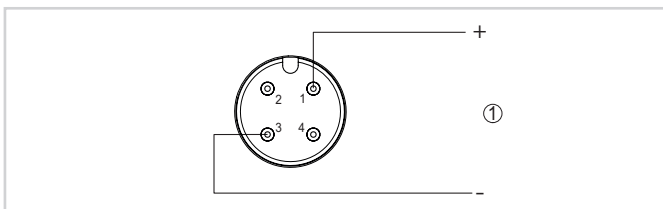
Adjustment via PACTware or app

Electrical connection

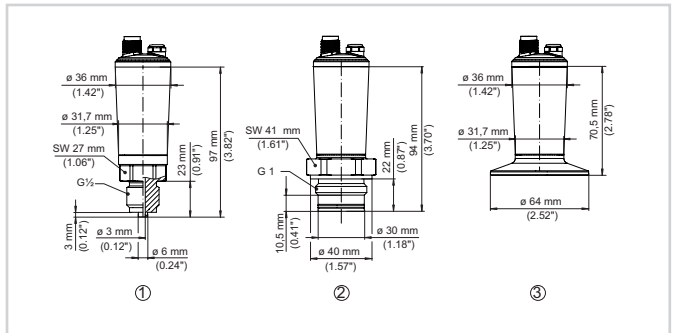Wiring plan - two-wire 4 … 20 mA - plug according to ISO 4400

1 *Voltage supply and signal output*

Wiring plan - two-wire 4 … 20 mA - M12 x 1 plug

1 *Voltage supply and signal output*

Dimensions

Dimensions VEGABAR 29

1 *Thread G½ (EN 837), manometer connection*
2 *Thread G1 (ISO 228-1)*
3 *Clamp 2" PN 40, ø 64 mm (DIN 32676, ISO 2852)*

Information

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

In the download section on our homepage you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

Instrument selection

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

You can find detailed information on the instrument versions at www. vega.com and "*Products*".

Contact

You can find your personal contact person at VEGA on our homepage www.vega.com and "*Contact*".