

VEGABAR 83

Hydrostatic Pressure Indicator



OVERVIEW

The VEGABAR 83 is a pressure transmitter for pressure and level measurements of liquids and viscous products in the chemical, food processing and pharmaceutical industry. The VEGABAR 83 offers the possibility to detect even smallest measuring ranges from 0.1 bar.

In conjunction with a Slave sensor the VEGABAR 83 is also suitable for the electronic differential pressure measurement.

FEATURES

- Universal use thanks to completely welded measuring cell
- High measurement reliability through vacuum resistant version
- Maximum reliability and safety through proven technology

VEGABAR 83 SPECIFICATIONS

Technical Data

Pressure Measuring Range	-1 ... +1000 bar / -0.1 ... +100 MPa (-14.5 ... +15000 psig)
Process Temperature	-40 °C to 200 °C (-40 to +392 °F)
Process Pressure	-1 to 1000 bar
Deviation	< 0.075 %; < 0.1 %; < 0.2 %
Accuracy	0.075 %
Smallest Measuring Range	+0.1 bar/+10 kPa (+1.45 psig)
Process Fitting	Threaded: ≥ G½, ≥ ½ NPT Flanges: ≥ DN25, ≥ 1" Hygienic fittings: - Clamp ≥ 1" - DIN32676, ISO2852 - Slotted nut ≥ DN25 - DIN 11851
Ambient, storage, and transport temperature	-40 °C to 80 °C / -40 °F to +176 °F

Materials

Wetted Parts	316L, Alloy C22 (2.4602), 316Ti (1.4571), Alloy C4 (2.4610)
Process Seal	FKM, FFKM, EPDM, FEPM
Housing Material	Plastic , aluminum , stainless steel
Enclosure Rating	IP 68 (25 bar) or IP69K

Electrical

Operating Voltage	9.6 to 35 VDC
Output	Profibus PA Foundation Fieldbus 4 ... 20 mA 4 ... 20 mA/HART - two-wire Modbus Slave electronics for electronic differential pressure

Approvals

Scope	ATEX / Europe FM / USA IEC / worldwide CSA / USA and Canada
Explosion Protection	Intrinsic safety Ex ia Pressure-tight encapsulation Ex d Protection through housing St Ex
Ship Approval	ABS, BV, CCS, DNV, GL, LR, RINA
Overfill Protection	WHG VLAREM II
SIL Qualification	SIL2