VCP - Smartline Vacuum Transducer Pirani for Corrosive Media Absolute Pressure 1000 to 5×10^{-4} mbar



VCP at a glance

- Durable, elastic Pirani helix filament
- Suitable for demanding applications with aggressive media due to platinum rhodium filament
- Overpressure stability up to 16 bar
- High reliability
- Excellent reproducibility
- Short response time of up to 40 ms
- Integrated metal screen for protection against contamination such as oil and solvent vapors
- Stable measurements thanks to optimized temperature compensation
- Easily replaceable sensor heads with stored calibration data
- Two independent, potentialfree relay switch points
- Options for drop-in replacements (scalable output signals and adapters)

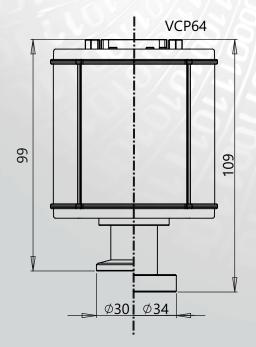
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Technical Data	
Measurement Principle	Heat conduction Pirani, depending on gas type
Measurement Range	1000 - 5e-4 mbar (750 - 5e-4 Torr)
Max. Overload	10 bar abs. optional: 16 bar abs. (with CERT31P)
Accuracy	1000 - 10 mbar: Approx. 30 % f. reading, 10 - 0.01 mbar: 10 % f. reading
Repeatability	10 - 0,01 mbar: 5% from reading
Materials with Vac. Contact	Stainl. steel 1.4307, platin/rhodium, nickel, glass
Reaction Time	40 ms
Operating Temperature	+5+60°C (Profinet +5+50°C)
Storage Temperature	-40+65°C
Max. Bake Out Temperature	Max. 150°C at the flange (voltage supply switched-off
Supply	20 - 30 VDC
Power Consumption	Max. 2.5 W, add. 0.8 W for EtherCAT /relays / LCD add. 1.6 W f. Profinet
Output Signal	0-10 VDC, min. 10 k Ω , measuring range 2.2 to 8.5 VDC, log. except for EthercAT, Profinet
Digital Interface	Rs485: 9.6 kBd to 115 kBd, 8 databit, 1 stopbit, no parity EtherCAT, Profinet
Switch Points	2x relay, potential free, 50 VAC / 2 A, 30 VDC / 2 A, max. 60 VA except for EtherCAT, Profinet
Electrical Connection	RS485/0-10V: SubD, 15-pole, male RS485/EtherCAT/Profinet: 1x M12 A / 2x M12 D, female
Vacuum Connection	DN 16 ISO-KF (VCP63), DN 16 CF-F (VCP64)
Protection Class	Up to IP54 (SubD with XB15SL05 adaptor)
Weight	190 g (VCP63)



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VCP63D DN 16 ISO-KF, 0-10 V and RS485
VCP64D DN 16 CF-F, 0-10 V and RS485

VCP63DL DN 16 ISO-KF, 0-10 V and RS485, with LCD display
VCP64DL DN 16 CF-F, 0-10 V and RS485, with LCD display

VCP63E DN 16 ISO-KF, EtherCAT and RS485
VCP64E DN 16 CF-F, EtherCAT and RS485

VCP63PN DN 16 ISO-KF, Profinet and RS485

■ VCP64PN DN 16 CF-F, Profinet and RS485

Accessories

- CERT31P: overpressure stability 16 bar, incl. testing certificate 3.1
- Replacement sensor heads: B_VCP63D, B_VCP64D
- SLCASE Smartline protective plastic case, SLN4 plug-in power supply, SLKUSB interface converter RS485-USB, VGR VacuGraph software lite version

Further accessories as well as detailed information about our product family can be found in our Smartline brochure.

