

VSCUSB - Vacuum Transducer Piezo

Absolute Pressure 2000 to 1 mbar

Relative Pressure -1060 to +1200 mbar



Overview VSC-USB vacuum transducer

- Chemical resistant ceramic sensor with FKM sealing and absolute pressure measuring range from 2000 down to 1 mbar as well as relative pressure measuring range from -1060 to +1200 mbar
- High reliability and long-term stability
- Measurement independent of gas type
- Fast response time of up to 20 ms enable shorter clock cycles
- Resistant to dirt

Overview USB vacuum transducers

- Easy connection and adjustment via USB-C
- Intuitive handling via software or app
- Excellent reproducibility and reliability for stable production processes
- Stable, reproducible measurement values due to microprocessor controller and individual temperature compensation
- Precise, digital adjustment to zero pressure and atmosphere via USB connection possible
- Optical status display by LED
- Functionalities are reduced to minimum to achieve an optimal cost-performance-ratio
- Robust metal housings are ideal for rugged industry environments
- Compact construction, ideal for industrial applications with reduced space

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Technical Data

Measurement principle	Piezo-resistive, independent of gas type
Measurement Range	Absolute Pressure: 2000 - 1 mbar (1500 - 1 Torr) Relative Pressure: -1060 ... +1200 mbar (-795 ... +900 Torr) (depending on ambient pressure)
Materials with Vac. Contact	Stainl. steel 1.4305, Al ₂ O ₃ ceramic, FKM
Max. Overload	4 bar abs.
Accuracy	Absolute Pressure: 2000 ... 1200 mbar: 1% f. scale end 1200 ... 1 mbar: 0.1% f. scale end (linearity, hysteresis, repeatability) Relative Pressure: +1200 ... 0 mbar: 1% f. span 0 ... -1060 mbar: 0.15% f. span
Reaction Time	<20 ms
Voltage Supply	2.7 - 5.25 VDC
Electrical Connection	USB-C, lockable
Power Consumption	Max. 0.1 W
Operating Temperature	+5...+60 °C
Storage Temperature	-40...+75 °C
Digital Interface	USB-UART: 9.6 ... 115 kBd, 8 databits, 1 stopbit, no parity
Vacuum Connection	Small flange DN16 ISO-KF with G1/4 female thread
Protection Class	IP40
Weight	Approx. 100 g (VSC43USB)

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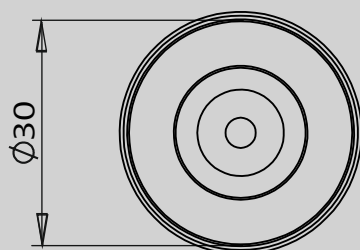
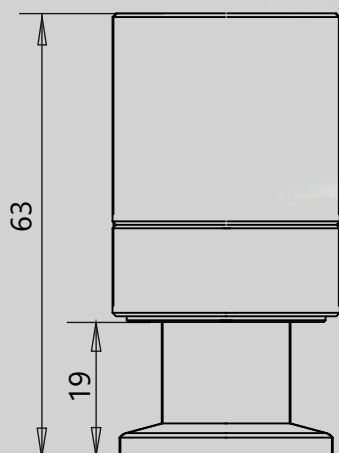
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Dimensions in mm

VSC43USB



Model designations

- VSC43USB DN 16 ISO-KF, USB-C connection

Accessories

- WUSBC002 Cable USB-A to USB-C with lock screw
- VacuSniff App for Android
- VGR VacuGraph software

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