

VSC - Analogline Vacuum Transducer Piezo

Absolute Pressure 1400 to 1 mbar

ANALOGLINE



Overview VSC vacuum transducer

- Ceramic sensor with FKM sealing
- High reliability and long term stability
- Measurements independent of gas type
- Short response time of up to 20 ms
- Resistant to dirt
- Suitable for 1 and 2 channel controller VD6 / VD12

Overview Analogline vacuum transducers

- Stable, reproducible measurement values due to microprocessor controller and individual temperature compensation
- Precise, digital adjustment to zero pressure and atmosphere at the push of a button. The vacuum transducer automatically recognizes the adjustment point
- Functionalities of the Analogline are reduced to minimum to achieve an optimal cost-performance-ratio
- Robust metal housings and plugs with protection class IP54 (4-20 mA versions) or IP40 (0-10 V versions), ideal for rugged industry environments
- Compact construction, ideal for industrial applications with reduced space
- Linear and logarithmic output signal of the transducer (optionally 4-20 mA or 0-10 V) can easily read out with a system control (PLC)

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Technical Data

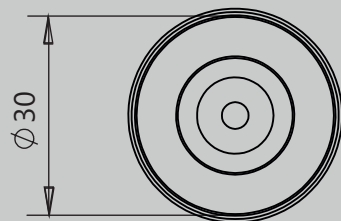
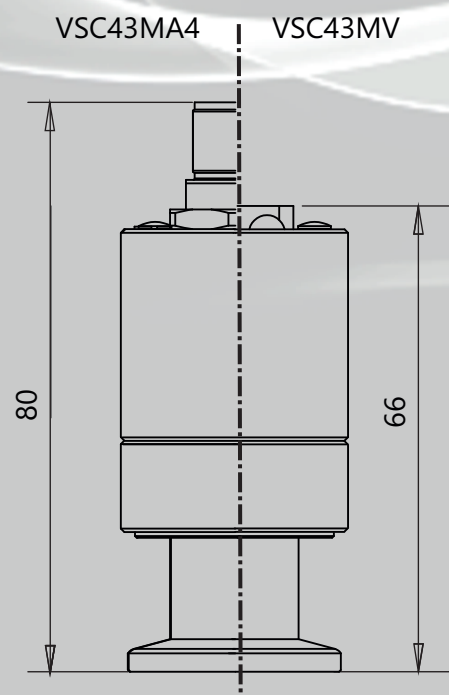
Measuring Principle	Piezoresistive, independent of gas type
Measurement Range	1400 - 1 mbar (1050 - 1 Torr)
Materials with Vac. Contact	Stainless steel 1.4305, Al ₂ O ₃ ceramic, FKM
Max. Overload	4 bar absolute
Accuracy	±0.3 % f. s. (nonlinearity, hysteresis, repeatability)
Measuring Interval	10 ms
Response Time	< 20 ms
Power Supply	9-30 VDC (VSC43MA4), 15-30 VDC (VSC43MV)
Electrical Connection	M12 A, 5pole, male, lockable (VSC43MV4) Hirschmann, 6 pole, male, lockable (VSC43MV)
Power Consumption	Max. 0.6 W with 24 VDC supply voltage
Operating Temperature	+5...+60°C
Storage Temperature	-40...+70°C
Output Signal	VSC43MA4: 4-20 mA, linear, max. load resistor in Ω : $RL = (\text{supply voltage (V)} - 9V) / 0.02 \text{ A}$ VSC43MV: 0-10 VDC, load > 10 Ω range 1.0 to 8.0 VDC, linear (5 mV/mbar)
Vacuum Connection	Stainless steel small flange DN 16 ISO-KF with G1/4 female thread
Protection Class	IP54 (VSC43MA4), IP40 (VSC43MV)
Weight	Approx. 120 g

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Dimensions in mm



Model designations

- VSC43MA4 Output 4-20 mA,
DN 16 ISO-KF flange, G1/4 female thread
- VSC43MV Output 1.0-8.0 VDC,
DN 16 ISO-KF flange, G1/4 female thread

Sets

- VD62P115 Set (115 VAC) with 1 channel controller
VD6S2115, VSC43MA4, measuring cable 2 m
- VD62P230 Set (230 VAC) with 1 channel controller
VD6S2230, VSC43MA4, measuring cable 2 m
- VD122P Set with 2 channel controller
VD12, VSC43MV, measuring cable 2 m

Accessories

- VD81SW1 Hose nozzle brass, nickel plated
- XB0500004 Mating plug, 5pole for VSC43MA4
- XB0600002 Mating plug, 6pole for VSC43MV

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