

VCC - Analogline Vacuum Transducer Capacitive

Absolute Pressure 200 to 0.1 mbar

ANALOGLINE



Overview VCC vacuum transducer

- Corrosion resistant aluminum oxide ceramic sensor
- Insensitive against contamination
- Gas type independent measurement
- Excellent accuracy and reliability
- High resolution
- Analog output signal 4 – 20 mA (two wire), linear
- Suitable for 1 channel controller VD6

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	Capacitive, independent of gas type
Measurement Range	200 - 0.1 mbar (150 - 0.1 Torr)
Materials with Vac. Contact	Stainless steel 1.4305, Al ₂ O ₃ , ceramic, FKM
Max. Overload	6 bar absolute
Accuracy	±0.25 % f. s. (nonlinearity, hysteresis, repeatability)
Temperature Coefficient	<0.04 % f.s. / 10 K
Response Time (10...90%)	<120 ms
Power Supply	9 - 30 VDC
Electrical Connection	M12 A, 5-pole, male, lockable
Power Consumption	<0.6 W
Operating Temperature	+5...+60°C
Storage Temperature	-40...+70°C
Output Signal	4 - 20 mA, linear, max. load resistor in Ω : (Supply Voltage [V] - 9) / 0.02
Vacuum Connection	DN 16 ISO-KF with G1/4 female thread
Protection Class	IP54
Weight	Approx. 170 g

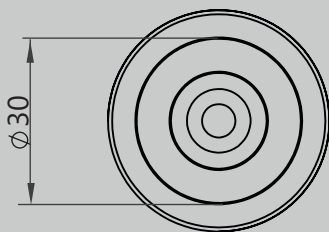
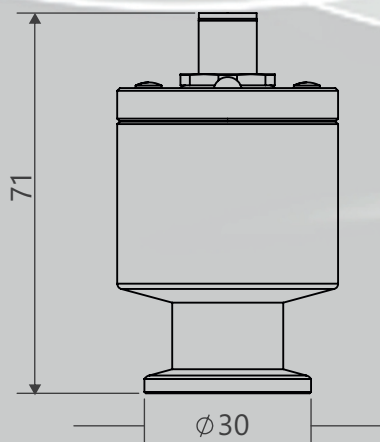
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Dimensions in mm

VCC200MA4



Model designations

- VCC200MA4 Output 4-20 mA, DN 16 ISO-KF flange, G1/4 female thread

Accessories

- VD81SW1 Hose nozzle brass, nickel plated
- XB0500004 Mating plug, 5pole for VCC200MA4
- W0509002 Measuring cable for VCC200MA4 with VD6, shielded, 2 m
- W0509006 Measuring cable for VCC200MA4 with VD6, shielded, 6 m

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