

# VCP - Analogline Vacuum Transducer Pirani for Corrosive Media

Absolute Pressure 1000 to  $5 \times 10^{-4}$  mbar

ANALOGLINE



## Overview VCP vacuum transducer

- Durable, elastic Pirani helix filament
- Suitable for demanding applications with aggressive media due to platinum rhodium filament
- Patented impulse Pirani with extended measuring range; very high resolution also in the rough vacuum range
- High reliability
- Excellent reproducibility
- Integrated metal facing for protection against contamination like oil vapours or solvent vapours
- Overpressure stability up to 16 bar
- UHV suitable due to metal sealed stainless steel measuring cell (He leakage rate <5e-10 mbar l/s)
- Suitable for 2 channel controller 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

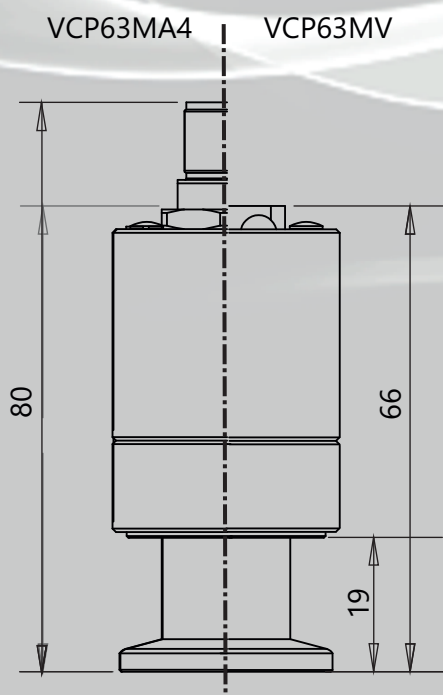
Measuring Principle	Heat conduction (Impulse Pirani), depending on gas type
Measurement Range	1000 - $5 \times 10^{-4}$ mbar (750 - $5 \times 10^{-4}$ Torr)
Materials with Vac. Contact	Stainless steel 1.4307, nickel, glass, filament: platinum-rhodium
Max. Overload	10 bar absolute, optional: 16 bar abs. (with CERT31P)
Accuracy	1000 - 10 mbar: approx. 30% f. r. 10 - $1 \times 10^{-2}$ mbar: $\pm 10\%$ f. r.
Repeatability	10 - 0,01 mbar: $\pm 5\%$ f
Response Time	< 200 ms
Power Supply	15 - 30 VDC
Electrical Connection	Hirschmann, 6 pole, male, lockable (VCP63MV) M12 A, 5pole, male, lockable (VCP63MA4)
Power Consumption	Max. 1.5 W with 24 VDC supply voltage
Operating Temperature	+5...+60°C
Storage Temperature	-20...+70°C
Bake Out Temperature	Max. 150 °C at the flange (transducer separated from voltage supply)
Output Signal	0 - 10 VDC, load > 10 k $\Omega$ , range 2.2 - 8.5 VDC, log. (1V/decade) VCP63MA4: 4 - 20 mA, logarithmic
Vacuum Connection	Stainless steel small flange DN 16 ISO-KF
Protection Class	IP40 (VCP63MV), IP54 (VCP63MA4)
Weight	Approx. 100 g (VCP63MV)

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## Dimensions in mm



## Model designations

- VCP63MV DN 16 ISO-KF connection, output 0-10 V logarithmic
- VCP63MA4 DN 16 ISO-KF connection, output 4-20 mA logarithmic

## Accessories

- CERT31P Overpressure stability 16 bar, incl. testing certificate 3.1
- XB0600002 Mating plug, 6pole, for VCP63MV
- XB0500004 Mating plug, 5 pole, for VCP63MA4
- W0606002 Measuring cable, for VCP63MV, shielded, 2 m
- W0509002 Measuring cable, for VCP63MA4, shielded, 2 m

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

