

# VCP - Analogline Vacuum Transducer Pirani for Corrosive Media

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

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## VCP at a glance

- 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)
- Analog signal output 0-10 V, logarithmic
- Suitable for 2 channel controller VD12

## Features of the Analogline product family

- Stable, reproducible measurement values due to optimized temperature compensation
- Increased longevity due to robust metal housings
- Precise, digital adjustment to zero pressure and atmosphere at the push of a button
- Optimal price-performance ratio
- Compact industrial-conform construction
- Easy connection to PLCs and other control systems

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### Technical Data

Measuring Principle	Heat conduction (Impulse Pirani), depending on gas type
Materials with Vac. Contact	Stainless steel 1.4307, nickel, glass, filament: platinum-rhodium
Measurement Range	1000 - $5 \times 10^{-4}$ mbar (750 - $5 \times 10^{-4}$ Torr)
Max. Overload	10 bar absolute   up to 16 bar abs. (with CERT31P)
Accuracy	1000 - 10 mbar: Approx. 30% from reading 10 - $1 \times 10^{-2}$ mbar: $\pm 10\%$ from reading
Repeatability	10 - 0,01 mbar: $\pm 5\%$ from reading
Response Time	< 200 ms
Voltage Supply	15 - 30 VDC
Electrical Connection	Hirschmann, 6 pole, male, lockable
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 kW, range 2.2 - 8.5 VDC, log. (1V/decade)
Vacuum Connection	Small flange DN 16 ISO-KF
Protection Class	IP40
Weight	120 g

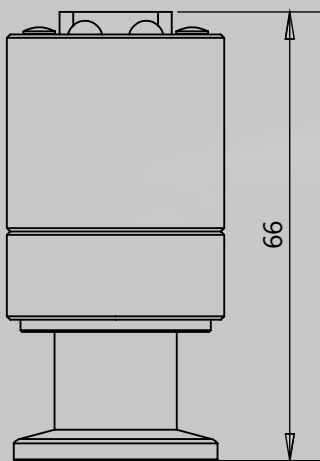
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## Dimensions in mm

VCP63MV



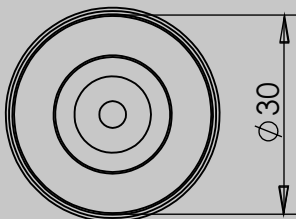
## Model designations

- VCP63MV DN 16 ISO-KF connection; output 0 - 10 V logarithmic

## Accessories

- CERT31P  
overpressure stability 16 bar, incl. testing certificate 3.1
- XB0600002  
Mating plug, 6pole, for VCP63MV
- W0606002  
Measuring cable for VCP63MV with VD12, shielded, 2 m
- W0606006  
Measuring cable for VCP63MV with VD12, shielded, 6 m

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



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