

SP36 - Analogline Vacuum Transducer Pirani

Absolute Pressure 1000 to 1×10^{-4} mbar

ANALOGLINE



Overview SP363 vacuum transducer

- Analog signal output 0-10 V, logarithmic, 1,286 V/decade
- Plug-and-play due to FCC68 connector
- Durable, elastic Pirani helix filament
- Patented impulse Pirani with extended measuring range; very high resolution also in the rough vacuum range
- Highest reliability
- Integrated metal facing for protection against contamination like oil vapours or solvent vapours
- Excellent reproducibility
- UHV suitable due to metal sealed stainless steel measuring cell (He leakage rate $< 5 \times 10^{-10}$ mbar l/s)
- Overpressure stability up to 16 bar

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

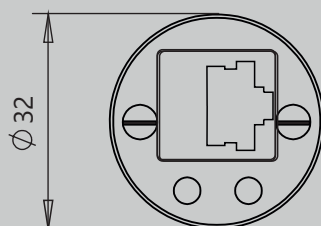
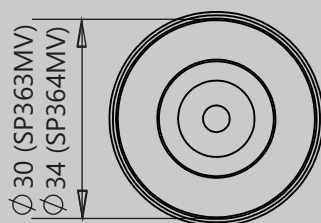
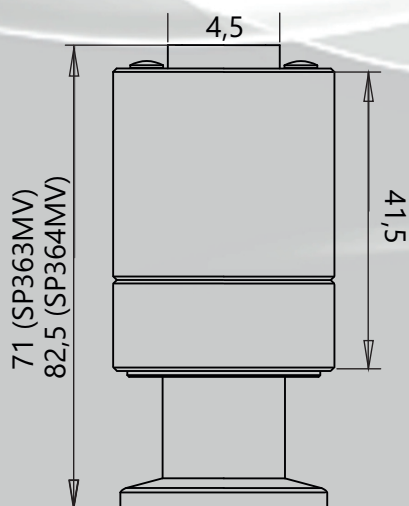
Measuring Principle	Heat conduction (pat. Impulse Pirani), depending on gas type
Measurement Range	1000 - 1×10^{-4} mbar (750 - 1×10^{-4} Torr)
Materials with Vac. Contact	Stainless steel 1.4307, tungsten, nickel, glass
Max. Overload	10 bar absolute optional: 16 bar abs. (with CERT31P)
Accuracy	1000 - 20 mbar: <30% f. r. 20 - 0.002 mbar: <10% f. r.
Repeatability	20 - 0.002 mbar: 2% f. r.
Response Time	<200 ms
Voltage Supply	15 - 30 VDC
Electrical Connection	FCC68, 8pin, female
Power Consumption	Max. 1 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 Ω range 1.0 - 10 VDC, logarithmic (1.286V / decade)
Vacuum Connection	DN 16 ISO-KF (SP363MV), DN 16 CF (SP364MV)
Protection Class	IP40
Weight	Approx. 105 g (SP363MV)

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Dimensions in mm



Model designations

- SP363MV DN 16 ISO-KF connection, output 0-10 V logarithmic
- SP364MV DN 16 CF connection, output 0-10 V logarithmic

Accessories

- CERT31P overpressure stability 16 bar, incl. testing certificate 3.1
- W0800302 Measuring cable, 2 m, for Analogline RJ45/FCC68, shielded with open ends
- W0800306 Measuring cable, 6 m, for Analogline RJ45/FCC68, shielded with open ends
- W0800310 Measuring cable, 10 m, for Analogline RJ45/FCC68, shielded with open ends

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