

SP36 - Analogline Vacuum Transducer Pirani

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



SP363 at a glance

- Durable, elastic Pirani helix filament
- Patented impulse Pirani with extended measuring range; very high resolution also in the rough vacuum range
- Integrated metal facing for protection against contamination like oil vapours or solvent vapours
- Highest reliability
- Excellent reproducibility
- UHV suitable due to metal sealed stainless steel measuring cell (He leakage rate $<5e-10$ mbar l / s)
- Overpressure stability up to 16 bar
- Analog signal output 0-10V, logarithmic
- Drop-in replacement for Leybold and Inficon Pirani sensors due to identical output characteristics
- Precise, digital adjustment to zero pressure and atmosphere at the push of a button
- Stable, reproducible measurement values due to optimized temperature compensation

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Technical Data

Measuring Principle	Heat conduction (pat. Impulse Pirani), depending on gas type
Measurement Range	1000 - $1e-4$ mbar (750 - $1e-4$ Torr)
Max. Overload	10 bar absolute optional: 16 bar abs. (with CERT31P)
Materials with Vac. Contact	Stainless steel 1.4307, tungsten, nickel, glass
Accuracy	1000 - 20 mbar: < 30% from reading, 20 - 0,002 mbar: < 10% from reading
Repeatability	20 - 0,002 mbar: 2% from reading
Response Time	< 200 ms
Voltage Supply	15 - 30 VDC
Power Consumption	Max. 1 W with 24 VDC supply voltage
Electrical Connection	FCC68, 8pin, female
Operating Temperature	+5...+60°C
Storage Temperature	-20...+70°C
Max. Bake Out Temperature	Max. 150°C at the flange (transducer separated from voltage supply)
Output Signal	0 - 10 VDC, load > 10 kW range 1.0 - 10 VDC, logarithmic (1.286V / decade)
Vacuum Connection	Small flange DN 16 ISO-KF (SP363MV), conflat flange DN 16 CF (SP364MV)
Protection Class	IP40
Weight	105 g (SP363MV)

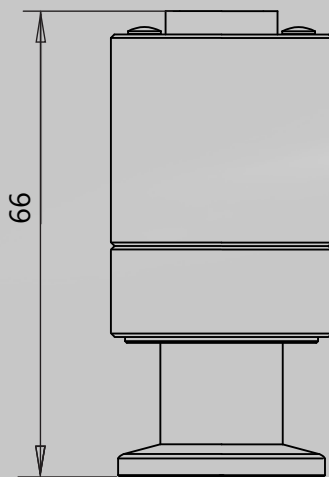
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Dimensions in mm

SP363MV



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, 2m, for Analogline RJ45/FCC68, shielded with open ends
- W0800306
Measuring cable, 6m, for Analogline RJ45/FCC68, shielded with open ends
- W0800310
Measuring cable, 10m, 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.

