

# SP363 - Analogline Vacuum Transducer Pirani

Absolute Pressure 1000 to  $1 \times 10^{-4}$  mbar

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## SP363 at a glance

- High resistance against oil and solvent vapors through robust Pirani helix filament with stainless steel shield
- Broad measurement range of 1000 to  $1e-4$  mbar
- Excellent measurement accuracy
- Suitable for UHV applications due to the metal sealed stainless steel sensor
- High resolution also in the rough vacuum range
- Overpressure stability up to 10 bar
- High reliability and operational safety
- 1:1 replacement for Leybold and Inficon Pirani sensors due to identical output characteristics, no change of the PLC necessary

## Features of the Analogline product family

- Stable, reproducible measurement values due to optimized temperature compensation
- Precise, digital push button digital adjustment of zero pressure and atmosphere
- Costsaving
- Easy connection to PLCs and other system controllers
- Extremely compact, designed for industrial applications

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## Technical Data

Measurement Principle	Heat conduction (impulse Pirani), depending on gas type
Measurement Range	1000 - $1 \times 10^{-4}$ mbar (750 - $1 \times 10^{-4}$ Torr)
Materials with Vac. Contact	Stainless steel 1.4307, tungsten, nickel, glass
Max. Overload	10 bar absolute
Accuracy	1000 - 20 mbar: Approx. 30% from reading 20 - $2 \times 10^{-3}$ mbar: $\pm 10\%$ from reading
Repeatability	20 - 0.002 mbar: $\pm 2\%$ from reading
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
Max. Bake Out Temperature	Max. 150°C at the flange (voltage 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
Protection Class	IP40
Weight	105 g

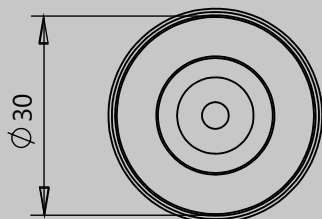
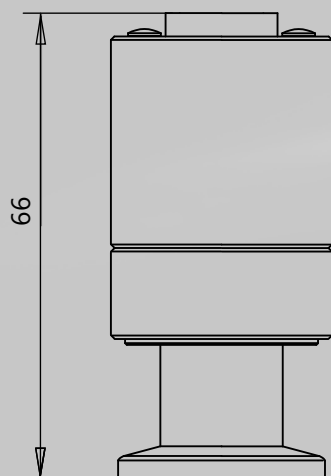
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## Dimensions in mm

SP363MV



## Model designations

- SP363MV DN 16 ISO-KF connection; output 0 - 10 V logarithmic

## Accessories

- 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

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