VSP - Passive Vacuum Sensor Pirani

Absolute Pressure 1000...100 to 1 x 10⁻³ mbar



Overview passive VSP vacuum transducer with Pirani sensor

- Cost-efficient Pirani sensor with durable, elastic helix filament
- Filament protected from condensing solvents by a metal screen
- Compact dimensions
- Very small sensor volume
- Integrated temperature sensor
- Optionally with cap to protect the sensor against dust and humidity
- Metal-sealed stainless steel sensor
- Sensor pre-adjusted
- Vacuum connection by stainless steel small flange DN 16 ISO-KF (VSP841) or 1/8" NPT male thread (VSP842)
- External sensor for compact vacuum meter VD84
- Proposal for evaluation circuit available on request



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Technical Data

Measurement Principle	Pirani, depending on gas type
Measurement Range	1000100 - 1e-3 (750 75 - 1e-3 Torr)
Materials with VacContact	Stainless steel 1.4305, tungsten, nickel, glass
Max. Overload	4 bar absolute
Accuracy	Dependent on the evaluation circuit, e.g. 10 - 1e-2 mbar: approx. 15 % from reading
Response Time	Approx. 200 ms
Power Supply	Supply of bridge circuit according to circuit proposal
Electrical Connection	4pole circular plug binder 713, screwable
Power Consumption	Approx. 30 mA
Power Consumption Operating Temperature	Approx. 30 mA +10+40°C
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Operating Temperature	+10+40°C
Operating Temperature Storage Temperature	+10+40°C -20+80°C
Operating Temperature Storage Temperature Max. Bake Out Temperature	+10+40°C -20+80°C 80°C at the flange
Operating Temperature Storage Temperature Max. Bake Out Temperature Output Signal	+10+40°C -20+80°C 80°C at the flange Change of bridge voltage depending on vacuum DN 16 ISO-KF, Ni (VSP841)

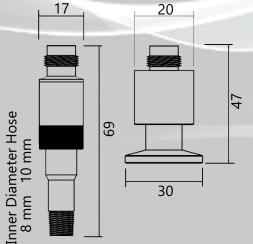


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Model designations

- VSP841 DN 16 ISO-KF connection
- VSP842 1/8"-NPT thread

Sets

VD84/1 Compact vacuum meter with probe type VSP841 DN 16 ISO-KF flange

 VD84/2 Compact vacuum meter with probe type VSP842 1/8" NPT male thread

Accessories

- XB0400005 Mating plug for VSP841 / 842
- VSPKAPPE Protective cap for plug

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

