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VSP841/842

The VSP841 and VSP842 Pirani half bridges measure absolute pressure in the fine vacuum range.

The robust heat conduction sensor is compact, preadjusted and temperature compensated and is suitable for controlled and passive bridge circuit.



- Appliances with integrated electronics for regulation and evaluation
- Apparatus engineering
- Analysis instruments
- Chemical process engineering
- Freeze drying
- Monitoring of vacuum insulations
- Concentrators

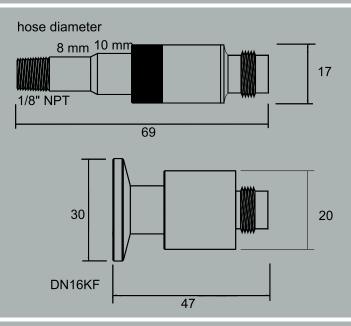
Passive Vacuum Sensor Absolute Pressure 1000...100 to 1x10⁻³ mbar



Benefits

- Economical Pirani sensor
- Long time stability
- Durable sensor, elastic helix filament
- Filament protected from condensing solvents by a metal screen
- Extremely small sensor volume
- Temperature sensor integrated

- Compact dimensions
- Lockable, electric connector
- Optionally with cap to protect the sensor against dust and humidity
- Sensor pre-adjusted
- Vacuum connection by stainless steel small flange DN 16 ISO-KF (VSP841) or 1/8" NPT male thread (VSP842)
- Proposal for evaluation circuit available on request



Technical Data

Measuring Principle	Pirani, depending on gas type
Materials In Contact With Vacuum	Stainless steel 1.4305, nickel, tungsten, glass (epoxy resin VSP841/2)
Measurement Range	1000100 - 1 x 10 ⁻³ mbar (75075 - 1 x 10 ⁻³ Torr), admitted overpressure 4 bar absolute
Accuracy	Dependent on the evaluation circuit, e. g. 10 - 1 x 10 ⁻² mbar: Approx. 15% from reading
Response Time	Approx. 200 ms
Power Supply	Supply of bridge circuit according to circuit proposal
Electrical Connection	4 pole circular plug binder 713, screwable
Power Consumption	Approx. 30 mA
Operating Temperature	+10+40°C
Storage Temperature	-20+80°C
Maximum Bake Out Temperature	80°C at the flange
Output Signal	Change of bridge voltage depending on vacuum
Vacuum Connection	VSP841: DN 16 ISO-KF, stainless steel, Ni VSP842: 1/8"-NPT-male thread, stainless steel, Ni
Protection Class	IP65
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Product Codes

• VSP841

Pirani half bridge, 1000...100 - 1 x 10⁻³ mbar, with DN 16 ISO-KF connection

• VSP842

Pirani half bridge, 1000...100 - 1 x 10-3 mbar with 1/8"-NPT thread

Accessories

• XB0400005 Mating plug for VSP841 / 842

VSPKAPPE

Protective cap for plug