

SV9 y SD9

Anemometer and Wind vane



Anemometer SV9

Composed of three plastic injected conical cups, fixed on the shaft of a rotary incremental encoder, the SV9 is an anemometer specifically designed to accurately measure wind speed, under different environmental conditions.

Its photocoupler encoder combined with high performance shielded bearings ensure excellent linearity, over the whole range of measure and high reliability on different temperature-humidity conditions. Low moment of inertia, low-threshold, fast response and low distance constant are guaranteed.

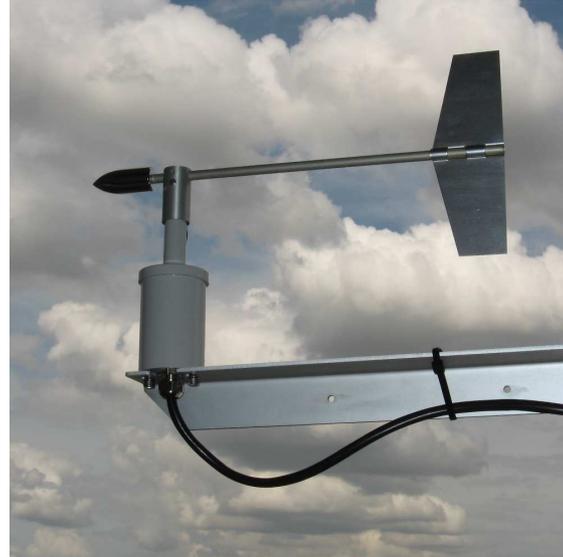
The variety of outputs suit most part of data loggers on market.

Body

Corrosion and environmental degradation resistance guaranteed by the UV-proof plastic body.

Bearings

Both sensors are composed of stainless steel, shielded bearings, which give them



Wind vane SD9

The SD9 is a wind direction sensor, composed of a counter-balanced wind vane, which azimuth angle is measured by a high-resolution Hall effect rotary encoder.

Thanks to high performance shielded bearings, the SD9 is affected by very low mechanical friction; low-threshold and fast response are guaranteed.

The variety of outputs suit most part of data loggers on market.

excellent dynamic characteristic with very low mechanical friction.

Heating

Optionally both sensors could be provided of internal heating system, in order to avoid bearings and shaft freezing. It is strongly recommended in cold climates.

SV9 y SD9

Technical Data SV9

General

Encoder	Rotary Incremental Photocoupler
Range	0÷65 m/s
Threshold	0,2 m/s
Accuracy	±3%
Output options	- pulses (frequency directly proportional to wind speed) - current (4-20mA) - voltage (5, 10V).

Electrical Features

Power supply	5÷30VDC or 11÷25VDC
Consumption	90 mW (@ 12V)
Operating Temperature	-30°C÷70°C (with heating)

Mechanics

Case	UV-proof injected plastic
Weight	160 gr (cup wheel included)
Cup Wheel Diameter	120 mm
Case Diameter	50 mm
Height	170 mm (cup wheel included)

Additional Accessories

Shaft Heating System	Thermostat controlled 4°C of activation threshold
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Technical Data SD9

General

Encode	Hall Effect Magnetic
Range	1°÷360°
Wind Threshold	0,2 m/s
Damping factor	0,5
Resolution	1,41°
Accuracy	1,41°
Output options	- 8-bits Gray code - synchronous serial - current (4-20mA) - voltage (5, 10V).

Electrical Features

Power supply	5÷30VDC or 11÷25VDC
Consumption	150 mW (@ 12V)
Operating Temperature	-30°C÷70°C (with heating)

Mechanics

Case	UV-proof injected plastic
Weight	340 gr. (vane included)
Vane Length	325 mm
Case Diameter	50 mm
Height	235 mm (vane included)

Additional Accessories

Shaft Heating System	Thermostat controlled 4°C of activation threshold
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Note

They are also available the models SV8 and SD8 that have the same features, but with body in anodized aluminum.