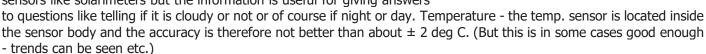
Present Weather / Visibility Sensor

Model: MiniPWS

The PWSMini is designed by Dr. Sten Löfving is a spin off from our MiniOFS sensor and it is probably the cheapest Present Weather Sensor on the market. And it is very compact - the width is only 68 mm. This little sensor measures 3 important weather parameters.

- (1) Visibility
- (2) Rain the response is fast compared to that from a tipping bucket. The threshold is also lower.
- (3) Snow same as for rain note that a simple tipping bucket sensor does not detect snow in many cases.

Besides that two other weather parameters are measured and displayed: Ambient light - the resolution and accuracy is not as good as for special sensors like solarimeters but the information is useful for giving answers





Dimensions: 68*45*34 mm Weight: About 170 grams Warm up time: 5 minutes

Current consumption: mean 20 mA from a 12 Volt (8-14) supply

Outputs: Digital, streaming RS232 Update time: 1 min for visibility * Temp. range: -20 to +50 deg C

Optical output power: Max about 1.8 mW from an IR laser, mean about 0.8 mW

laser safety class: 1, Wavelength: 980nm

Housing: Anodized aluminum, openings sealed with O-rings Visibility range: Visibilities from 5 km down to 20 meters

Accuracy of visibility reading: ± 30% Accuracy of measured rain amount: ±40%

Applications:

- Road & rail tunnels
- Marine vessels
- Small airports & helipads
- Building controls
- Remote weather monitoring stations
- Environmental field sites
- Ports & harbours
- Mobile weather monitoring vehicles
- Coastal weather monitoring stations

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Mounting the Unit:

The sensor should be mounted so that it "looks" roughly north (on the southern hemisphere south). There must not be anything in the sightline closer than about 5 meters. Outside a cone of about 30 degrees angle objects can be tolerated at down to about 1 meter.

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^{**} Drawing & specifications are subjected to change at any time without prior notice as per manufacturing suitability.



