

Meteo M&R

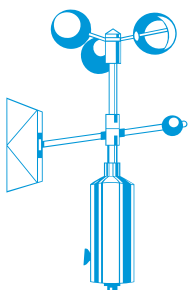
radiation & light



CSD3 sunshine duration sensor

LOW MAINTENANCE AND LOW POWER
FOR REMOTE LOCATIONS AND NETWORK USE.

CSD 3 measures sunshine duration. Sunshine duration is defined by WMO as the time during which the direct solar radiation exceeds the level of 120 W/m².



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It has no moving parts and uses 3 photo-diodes with specially designed diffusers to make an analogue calculation of when it is sunny. The output is switched high or low to indicate sunny or not sunny conditions. The calculated direct irradiance value is also available. CSD 3 operates from 12 VDC power and has built-in heaters to dissipate rain, snow and frost. These are normally switched externally but an optional internal thermostat control is available.

The humidity indicator shows clearly when a change of drying cartridge is necessary. A waterproof plug-and-socket cable connection for easy installation and servicing. The larger screw on drying cartridge is easier to change at extended intervals.



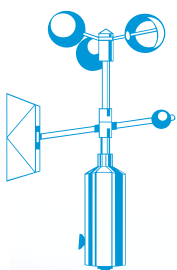
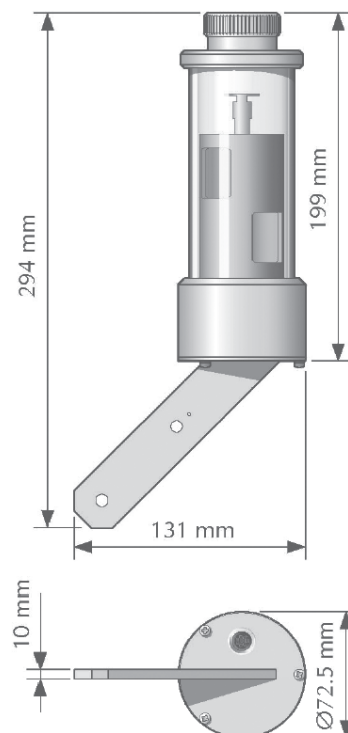
FEATURES

- Waterproof plug-and-socket cable connection for easy installation and servicing
- Humidity indicator to show when a change of drying cartridge is necessary

TECHNICAL SPECIFICATIONS

Spectral range	400 to 1100 nm
Operating temperature range	-40 to +70 °C
Sunshine signal	1 ±0.1 V (direct radiation > 120 W/m ²)
Accuracy	> 90% (monthly sunshine hours)
Accuracy	> 90% (direct signal for clear sky)
Analogue output signal	1 mV/Wm ²
Non-stability	< 2 % change per year
Temperature dependence	< 0.1 %/K
Power supply	12 VDC

DIMENSIONS



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