

Sentry™ Day/Night Photometer

The **Sentry™ Photometer** is used to measure ambient background light. The photometer is typically used for airport weather AWOS systems. Algorithms in the Sentry™ Visibility Sensor automatically convert extinction coefficient to visibility using Koschmeider's Law during the day and Allard's Law at night.

In accordance with FAA AWOS requirements, the photometer indicates day for increasing illumination between 0.5 and 3 foot-candles (FC) and night for decreasing illumination between 3 and 0.5 FC. When configured with the photometer, the Sentry™ Visibility Sensor serial output data string includes the ambient light intensity in units of LUX as well as "D" for day and "N" for light.

Features include:

- Full range spectral response
- Interfaces to Sentry™ equipped with microprocessor option
- Adjustable mounting hardware supplied
- Anti-dew heater to keep window clear of condensation

System requirements:

SVS1 Sentry™ Visibility Sensor with serial output option required

Ordering Information:

- P/N 20007 Sentry™ Photometer



D/N Photometer Specifications

Performance:	
Spectral Response	400-700 nm Human Eye Response
Range	0 to 5000 LUX (4645 FC)
Accuracy	5 %
Resolution	0.001 LUX
Field of View	6 degrees
Electrical:	
Interface	2-Wire SMBus to Sentry™ Microprocessor PCB
Heater	0.5-W anti-dew heater on window
Connection	Integral power/signal cable provided
Physical:	
Dimensions	115 mm x 65 mm x 55 mm
Weight	250 g
Mounting	Mounts to Visibility Sensor pole with supplied
clamps	
Adjustment	Azimuth & elevation adjustable
Environmental	
Weather	IP66 rated polycarbonate housing
Temperature	-40 to +60 C
Humidity	0-100% RH



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