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## VISIBILITY AMBIENT LIGHT SENSOR

**6300**

- ✓ Compact, Modular design
- ✓ Extensive self-diagnostics
- ✓ Proven field qualified enclosure
- ✓ National Weather Service, CE approved
- ✓ Serial and analog outputs
- ✓ Built-in self test, including window fouling
- ✓ RS232 and Analog outputs
- ✓ Window/hood heater prevents fogging and snow accumulation
- ✓ Enclosure heater for low temperature operation



The Belfort Model 6300 Ambient Light Sensor is designed to integrate with any Belfort Visibility Sensor, providing accurate and reliable visibility and ambient light data for Runway Visual Range calculations. With both serial and analog outputs, the Model 6300 can also be used as a stand-alone ambient light sensor.

The physical package for the sensor is the same proven design already installed in over 1,000 ASOS Visibility Sensor suites worldwide. Both window/hood and electronic heaters are employed for low temperature and blowing precipitation conditions.

Extensive self-diagnostics include processor, memory and heater diagnostics as well as window fouling conditions.

These sensors are assembled around a compact and sturdy corrosion resistant housing which can be easily installed on the Visibility Sensor support mast. The standard unit incorporates optics/hood heaters to prevent condensation on the optic elements and to prevent freezing precipitation on the hood. A thermostatically operated enclosure heater may also be separately powered for extremely low temperature operation.

Belfort Visibility Sensors have earned a leading reputation with the world's foremost meteorological and transportation organizations. The Model 6300 Ambient Light Sensor brings the same high reliability technology to Runway Visual Range applications.

### Specifications

Range : 0.5 to 10,000 fL  
Field of View : 6.0°  
Outputs  
    Analog : 0-1, 0-5 or 0-10V,  
    Serial : 300-19200 baud  
Operating Temp. : -55° to +60°C

Humidity : 0 to 100% RH  
Power Requirements : 1W @ 12VDC  
Heater power : 11W @ 24VDC  
Dimensions : 5" x 3" x 2-1/4"  
Weight : 2.5 lbs  
Mounting : Mast clamp

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