

# AMBIENT LIGHT SENSOR

- Compact, Modular Design
- Extensive Self-Diagnostics
- Proven, field qualified enclosure
- National Weather Service, CE Approved
- Interfaces with any Belfort Visibility Sensor
- Serial and Analog Outputs



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 in 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.

THE STANDARD  
OF MEASUREMENT

**BELFORT** INSTRUMENT

# Ambient Light Sensor Model 6300

## Specifications

Range.....0.5 to 10,000 fL  
Field of View.....6.0°  
Operating Temperature Range.....-55° to +60°C  
(-67° to +140° F)  
Humidity.....0 to 100% RH  
Dimensions.....5"x 3"x 2 1/4"  
Weight.....2.5 Lbs.  
Mounting.....Mast clamp  
Power Requirements.....1W @ 12VDC  
Heater Power.....11W @ 24VDC  
Outputs:  
    Analog.....0-1, 0-5, 0-10V  
    Serial.....300-19200 baud

Same proven enclosure as ASOS  
Visibility System Day/Night Sensor

Window/Hood heater to prevent fogging  
and snow accumulation. Enclosure  
heater for low temperature operation

Built in self test including window fouling

RS232 and Analog outputs

Can be integrated with any Belfort  
visibility sensor

## Standard Features

- Simple mast mount
- User proven enclosure
- 12 VDC
- Serial and Analog outputs
- CE approved
- 47 CFR 15



*For Further Information, Contact:*

**Belfort Instrument Company**  
727 South Wolfe Street  
Baltimore, MD 21231 U.S.A.  
Tel: (410) 342-2626 ▪ Fax: (410) 342-7028  
<http://www.belfortinstrument.com>