



Visibility

S1305Z

- **High accuracy**
 - **Proven optical technology**
- **Digital, analog, or switch outputs**
 - **Compact, lightweight design**
- **Easy installation & maintenance**

The Visibility sensor is designed to monitor visibility conditions over a range of 0 - 10 miles. Alarm outputs can be adjusted to user preset visibility thresholds. The sensor is designed to provide both accuracy and reliability in a cost effective package. Applications include lighthouses, highways, and resort areas, as well as shipboard and other marine platforms.

A high output infra-red LED transmitter projects light into a sample volume, and light scattered in a forward direction is collected by the receiver. The light source is modulated to provide excellent rejection of background noise and natural variations in background light intensity.

Visibility is also compared to the preset alarm thresholds, so that when alarm conditions are reached, the outputs are switched. Visibility thresholds can be preset to any value within the instrument range.





Technical Specifications

S1305Z

Range:	20 ft - 2.3 miles 20 ft - 10 miles
Accuracy:	+/- 10% or 10 ft (3 m)
Scatter Angle:	34° nominal
Power Requirements:	7 W @ 12 VDC or 10 W @ 110/220 VAC
Heater Power:	12 VDC or 110/220 VAC
Outputs	
Analog:	0 - 1 V, 0 - 5 V, 0 - 10 V 4 - 20 mA
Alarms:	2 channels, TTL Hi/Lo
Digital:	RS-232, 2400 Baud
Temperature:	-25°C to +55°C (-13°F to +130°F)
Humidity:	0 - 100%

PHYSICAL

Size:	37" W x 9" H x 13.5" D
Weight:	18 lbs (8.2 kg)