Ortana Visibility sensor measures atmospheric visibility by determining the amount of light scattered by different particles (smoke, dust, haze, fog, rain or snow) in the air that pass through the optical sample volume.

- Especially built for Traffic Applications
- Ideal for road long distance visibility data collection
- Accurate and traceable measurement
- High mechanical strength
- Low maintenance requirement
- Compact Design
- Simple Installation and Maintenance
- Measures visibility up to 3000 meters
- Internal Relative humidity, Absolute humidity, Dew point and Temperature measurement
- RS485 Communication Interface
- Calibration device available (optional)

### General Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>RS485 Semi-Duplex Wire</td>
</tr>
<tr>
<td>Dimension</td>
<td>380 (w) x 80 (h) x 260 (d) mm</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP66</td>
</tr>
<tr>
<td>Housing Material</td>
<td>Polycarbonate &amp; Aluminum</td>
</tr>
<tr>
<td>Power Supply</td>
<td>24VDC +/- 10% &lt; 5VA (heater is off)</td>
</tr>
<tr>
<td></td>
<td>24VDC +/- 10% &lt; 30VA (heater is on)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.5 kg</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40°C to +80°C</td>
</tr>
</tbody>
</table>
## Technical Specifications

### Visibility Sensor Specifications

- **Principle**: Forward Scattered Light Procedure
- **Emission Angle**: 15°
- **Collection Angle**: 15°
- **Unit**: Meter, Feet, Kilometer and Miles
- **Accuracy**: ±10 m or ±10 %
- **Value Update**: 1 Minute
- **Measurement Range**: 10 meters to 3000 meters
- **Heating Power**: 25 VA

### Cabin Interior Relative Humidity (Absolute Humidity, Mixing Ratio, Dew point, Relative Pressure)

- **Principle**: Capacitive
- **Measuring Range**: 0 % RH to 100 % RH
- **Accuracy**: ±2 % RH
- **Unit**: g/m³ (for Absolute Humidity Sensor)

### Cabin Interior Temperature

- **Principle**: NTC
- **Measuring Range**: -40°C to +80°C or -40°F to +176°F
- **Accuracy**: ±0,2°C
- **Unit**: Celsius and Fahrenheit

### Accessories

- 10 meters length Connection cable (Included)