

Intelligent Traffic Solutions

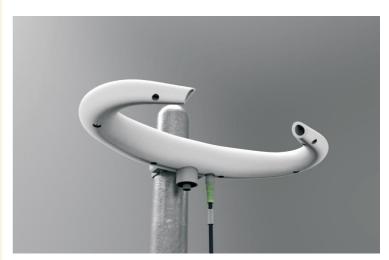
Visibility Sensor METEOS 151

ORT/SD-METEOS 101

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

Temperature Range

Interface	: RS485 Semi-Duplex Wire
Dimension	: 380 (w) x 80 (h) x 260 (d) mm
Protection Class	: IP66
Housing Material	: Polycarbonate & Aluminum
Power Supply	: 24VDC +/- 10% < 5VA (heater is off) 24VDC +/- 10% < 30VA (heater is on)
Weight	: 2.5 kg

: -40°C to +80°C



Technical Specifications

Visibility Sensor Specifications

Principle : Forward Scattered Light Procedure

Emission Angle : 15°

Collection Angle : 15°

Unit : Meter, Feet, Kilometer and Miles

Accuracy : $\pm 10 \text{ m or } \pm 10 \%$

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)