

## 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

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
Temperature Range	: -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	: ±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/m <sup>3</sup> (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)