# ortana

### **Intelligent Traffic Solutions**

# Weather Station METEOS 101

**ORT/SD-METEOS 101** 

Ortana Meteorology Station is a professional intelligent measurement transducer with digital interface for environmental applications. This station is especially designed for Traffic Applications with high mechanical strength and low maintenance requirement.

METEOS101 is integrated design with ventilated radiation protection for measuring

Air temperature

Relative humidity

Precipitation intensity

Precipitation type

Precipitation quantity

Air pressure

Wind direction

Wind speed

**Protection Class** 

**Power Supply** 



#### **General Information**

Interface : RS485 Semi-Duplex Wire

Weight : 2 kg

Dimensions : Ø200 / 280 (h) mm

Housing Material : Polycarbonate & Aluminum

: 24VDC +/- 10% < 5VA (heater is off) 24VDC +/- 10% < 30VA (heater is on)

Temperature Range : Between -40 °C and 80°C

Accessories : 10 meters length Connection cable (Included)

: IP66



## **Technical Specifications**

#### **Temperature**

Principle : NTC

Measuring Range : -40°C to +80°C or -40°F to +176°F

Accuracy : ±0,2°C

Unit : Celsius and Fahrenheit

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), % (for Relative Humidity)

**Precipitation Intensity** 

Principle : Doppler Radar

Measuring Range : 0,01mm

Accuracy : Covers Light Stratiform rain to heavy thunders shower

1 mm/h to 25.4 mm/h

Reproducibility: typ.>90%

Measuring Types : Rail, Snow, Hail

Wind Direction

Principle : Ultrasonic

Measuring Range : 0° to 359°

Accuracy : ±3°

Wind Speed

Principle : Ultrasonic

Measuring Range : 0m/s to 75m/s

Accuracy : ±0,3m/s or 3% of measurement, highest value applies

Heating : 25VA - 30VA at 24VDC

Air Pressure

Principle : MEMS capacitive

Measuring Range : Between 300 hPa and 1200hPa

Accuracy : ±1,5hPa