

# ULTRASONIC METEOROLOGY SENSORS

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# ULTRASONIC METEOROLOGY SENSORS

## WXA100-02 ULTRASONIC WIND SPEED AND DIRECTION SENSOR



### Wind Speed

Range: 0-60 m / s  
Response Time: 0.25s  
Output Resolution: 0,1 m/s  
Accuracy: 10 m/s  $\pm$  3%

### Wind Direction

Range: 0-360°  
Reaction Time: 0.25s  
Output Resolution: 0.1°  
Accuracy:  $\pm$  3°

## WXA100-05 WEATHER STATION SENSOR

Measuring Parameters: Wind speed and direction, Air pressure, Temperature, Humidity

### Wind Speed

Range: 0-60m / s  
Response time: 0.25s  
Output Resolution: 0.1s  
Accuracy: 10m/s  $\pm$  3%

### Wind Direction

Range: 0-360°  
Response time: 0.25s  
Output Resolution: 0.1°  
Accuracy:  $\pm$  3°

### Temperature

Observation Range: -40 ... + 85 ° C (-40 ... + 185 ° F)  
Accuracy:  $\pm$  0,3°C ( $\pm$  0,5°F)

### Relative Humidity

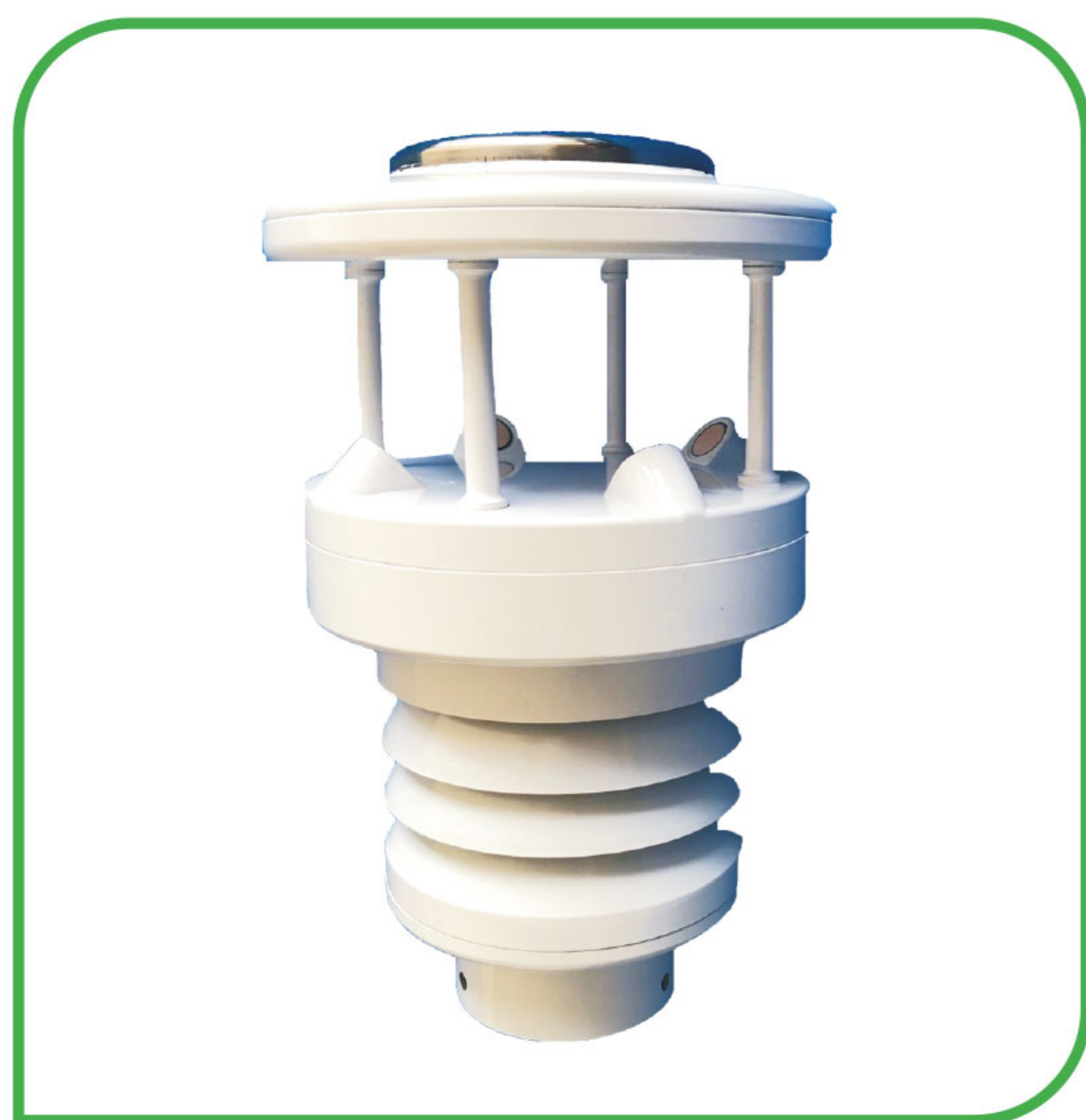
Observation Range: % 0 ... 100 relative humidity  
Accuracy:  $\pm$  % 3 relative humidity  
Output resolution: % 0.1RH

### Air Pressure

Observation Range: 10-1100 hpa  
Accuracy:  $\pm$  0.3 hpa  
Output Resolution: 0.1 hpa



### WXA100-06 WEATHER STATION SENSOR



Measuring Parameters:  
Wind speed and direction, Air pressure, Temperature, RH, Rain

#### Wind speed

Range: 0-60m/s  
Response time: 0.25s  
Output resolution: 0.1s  
Accuracy: 10m/s de  $\pm 3\%$

#### Wind direction

Range: 0-360°  
Response time: 0.25s  
Output Resolution: 0.1°  
Accuracy:  $\pm 3^\circ$

#### Temperature

Observation Range: -40 ... + 85 ° c (-40 ... + 185 ° F)  
Accuracy:  $\pm 0,3^\circ \text{C}$  ( $\pm 0,5^\circ \text{F}$ )

#### Relative Humidity

Observation Range: 0 ... 100 %RH  
Accuracy:  $\pm 3\%$  RH  
Output Resolution: 0.1 %RH

#### Air Pressure

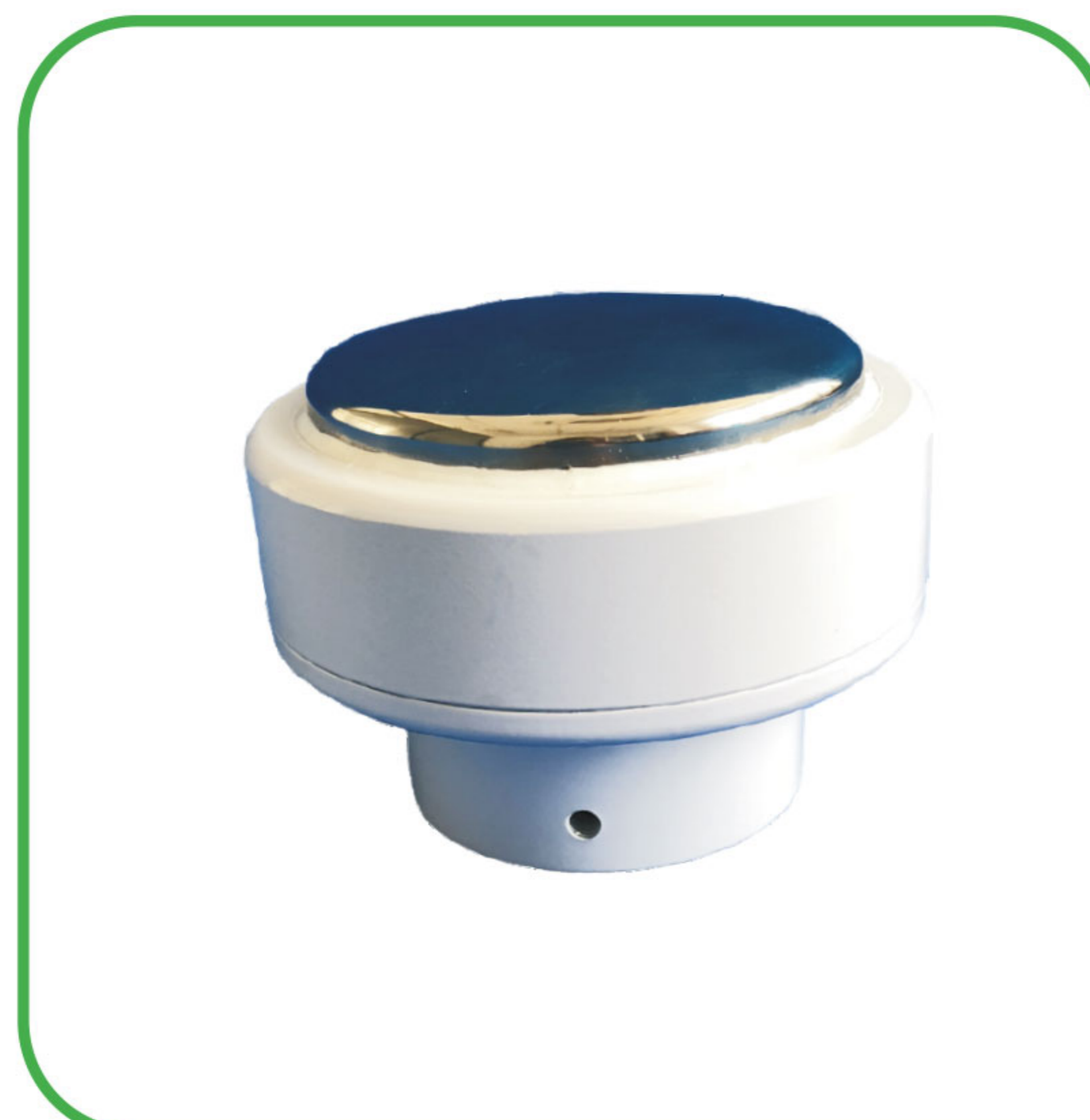
Observation Range: 10-1100hpa  
Accuracy:  $\pm 0.3\text{hpa}$   
Output Resolution: 0.1hpa

#### Rain

Observation Range: 0-500mm  
Accuracy:  $\pm 0.4\%$   
Output Resolution: 0.01mm  
Measuring Principle: Piezoelectric

### WXA100-ZRG

Measuring Parameters: Rain  
Type: Piezoelectric  
Power Supply: 12 •• 24VDC  
Working Temperature: -40 ... + 85°C (-40 ... + 185 °F)  
Relative Humidity: 0 .. 100 % RH  
Barometric Pressure: 10 ... 1100 hPa  
Power Consumpt.: 12VDC 10mA  
Digital Outputs: RS232 / RS485 / 0C  
Protocols: ASCII, Hexadecimal, Modbus Observation  
Range: 0 ... 500mm  
Accuracy: 0.01mm  
Output:  $\pm 4\%$



# ULTRASONIC METEOROLOGY SENSORS

## WXA100-07 WEATHER STATION SENSOR



Measuring parameters:  
Wind speed and direction, Air pressure, Temp., RH, Rain, Light intensity

**Wind speed**

Range: 0-60m/s  
Response time: 0.25s  
Output resolution: 0.1s  
Accuracy: 10m/s de± 3%

**Wind direction**

Range: 0-360°  
Response time: 0.25s  
Output resolution: 0.1°  
Accuracy: ± 3°

**Temperature**

Observation Range: -40 ... + 85 ° C (-40 ... + 185 ° F)  
Accuracy: ± 0,3° C ( ± 0,5°F)

**Relative humidity**

Observation range: 0 ... 100 %RH  
Accuracy: ± 3 %RH  
Output resolution: 0.1 %RH

**Air Pressure**

Observ. range: 10-1100hpa  
Accuracy: ± 0.3hpa  
Output resolution: 0.1hpa

**Measuring parameters:**

Wind speed and direction, Air pressure, Temp., RH, Rain, Light intensity

**Measuring parameters:**

Wind speed and direction, Air pressure, Temp., RH, Rain, Light intensity

## WXA100-08 WEATHER STATION SENSOR

**Measuring parameters:**

Wind speed and direction, Air pressure, Temp., RH, Rain, PM2.5, PM10, Noise

**Wind speed**

Range: 0-60m/s  
Response time: 0.25s  
Output resolution: 0.1s  
Accuracy: 10m/s de± 3%

**Wind direction**

Range: 0-360°  
Response time: 0.25s  
Output resolution: 0.1°  
Accuracy: ± 3°

**Temperature**

Observ. range: -40 ... + 85 ° C (-40 ... + 185 ° F)  
Accuracy: ± 0,3° C ( ± 0,5°F)

**Relative humidity**

Observ. range: 0 ...100 %RH  
Accuracy: ± 3 %RH  
Output resolution: 0.1 %RH

**Air pressure**

Observ. range: 10-1100hpa  
Accuracy: ± 0.3hpa  
Output resolution: 0.1hpa

**PM2.5**

Observ. range: 0-1000ug / m3  
Accuracy: ± 10ug / m3@ 0-100ug / m3  
± 10 % @ 100-500ug / m3  
± 15 % @ 500-1000ug / m3  
Output resolution: 1 ug / m3

**PM10**

Observ. range: 0-1000ug / m3  
Accuracy: ± 15ug / m3@ 0-100ug / m3  
± 15% @ 100-1000ug / m3  
Output resolution: 1 ug / m3

