



## WeatherStation® Multisensor – Ultrasonic Instruments for Stationary Platforms

A Compact, Rugged Instrument  
for Informed Decision-Making

### 110WX Multisensor

The WeatherStation®110WX is designed for stationary and deployable weather-monitoring applications. The 110WX provides wind speed and direction, air temperature, and barometric pressure readings. Feature rich and contained in a IPX6-rated\*, compact, durable housing, the 110WX is the right component for effective weather data gathering at any site. The 110WX has no moving parts making it trouble-free and insuring a long life of reliability and performance.



### Applications:

- Stationary weather monitoring stations
- Agricultural stations
- Construction site monitoring
- Deployable stations



#### Ultrasonic Wind Measurement

Apparent wind speed and angle with no moving parts



#### Barometric Pressure

Accurate atmospheric pressure measurement



#### Air Temperature

With calculated dew point, wind chill and heat index when RH module is installed



#### Relative Humidity (optional)

Field serviceable RH sensor with calculated dew point

\*IPX4 with RH module installed

## SPECIFICATIONS

### Wind Speed

**Range:** 0 to 40 m/s (0 to 89 MPH)  
**Accuracy:** 5% at 10 m/s at 4 angles  
**Resolution:** 0.1 m/s  
**Calculations:** User configurable damping

### Wind Direction

**Range:** 0° to 359.9°  
**Accuracy:** ±3° at 10 m/s  
**Resolution:** 0.1°  
**Calculations:** User configurable damping

### Air Temperature

**Range:** -40° to 80°C (-40 to 176°F)  
**Accuracy:** ±1.1°C at 20°C  
**Resolution:** 0.1°C

### Relative Humidity (optional)

**Range:** 0 to 100% RH  
**Accuracy:** ±3% RH at 0 to 90% RH at 20°C  
**Resolution:** 0.1% RH

### Barometric Pressure

**Range:** 300 to 1100 hPa  
**Accuracy:** ±0.5 hPa at 25°C (or better)  
**Resolution:** 0.1 hPa

**Operating Temperature Range:** -25 to 55°C (-13 to 131°F)

### Operating Voltage

**Supply Voltage:** 9 VDC to 40 VDC  
**Supply Current (at 12 VDC):** <50mA (<0.6 W)  
**NMEA 2000® Load Equivalency Number (LEN):** 1

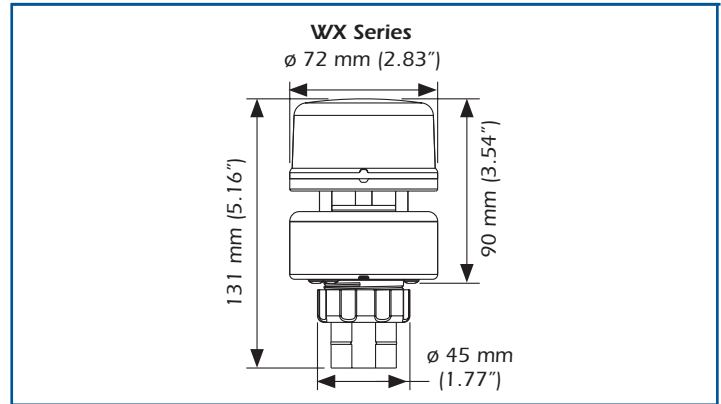
### Weight

275 grams (0.6 lbs)

**Mounting-thread Size, Base M39:** Adapter on cable is standard 1"-14 UNS (3/4" NPT optional)

**Certifications and Standards:** CE, IPX6 (IPX4 with optional Relative Humidity sensor), RoHS, IEC61000-4-2, IEC60945, IEC60950\_1C, IEC60950\_22A, EN55022, EN55024, EN14982

## DIMENSIONS



## COMMUNICATIONS

**Hardware Interfaces:** Serial RS232, Serial RS422, CAN

**Data Protocols:** Serial – NMEA 0183, CAN – NMEA 2000

**Serial Data Transmission Code:** ASCII

**Serial Output Rate:** 1 Hz typical. User selectable. 10 Hz max recommended

## PART NUMBERS

**110WX:** 44-820-1-01, RH, NMEA 0183 (RS422) and NMEA 2000® (CAN Bus)

**110WX:** 44-823-1-01, NMEA 0183 (RS422) and NMEA 2000® (CAN Bus)

**110WX:** 44-843-1-01, RH, NMEA 0183 (RS232) and NMEA 2000® (CAN Bus)

**110WX:** 44-860-1-01, NMEA 0183 (RS232) and NMEA 2000® (CAN Bus)

Cables sold separately unless otherwise specified

RH = Relative Humidity



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