

# WeatherStation<sup>®</sup> 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

**Air Temperature** 

Deployable stations



### Ultrasonic Wind Measurement Apparent wind speed and angle with no moving parts



### Barometric Pressure

Accurate atmospheric pressure measurement



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



Field serviceable RH sensor with calculated dew point

\*IPX4 with RH module installed

**Relative Humidity (optional)** 



## WEATHERSTATIONWX.COM

#### **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 <sup>®</sup> Load Equivalency Number (LEN): 1
Weight
275 grams (0.6 lbs)
Mounting thread Cine Race M20: Adapter on coble is standard 1" 14 UN

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

Certifications and Standards: CE, IPX6 (<sup>1</sup>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<sup>®</sup> (CAN Bus) 110WX: 44-823-1-01, NMEA 0183 (RS422) and NMEA 2000<sup>®</sup> (CAN Bus) 110WX: 44-843-1-01, RH, NMEA 0183 (RS232) and NMEA 2000<sup>®</sup> (CAN Bus) 110WX: 44-860-1-01, NMEA 0183 (RS232) and NMEA 2000<sup>®</sup> (CAN Bus)

Cables sold separately unless otherwise specified RH = Relative Humidity



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