

# WIRELESS DATA LOGGING WEATHER STATION



WMS831



- ✓ Multi Parameter LCD
- ✓ Remote Data Transmission to the Main Unit Via 433 MHz Signal
- ✓ 100 m (328') Transmission Range Without Interference
- ✓ Three Transmission Channels Selection
- ✓ Case Can Be Wall Mounted Using Built-In Hanger

The WMS831 wirelessly transmits outdoor temperature, humidity, quantity of rainfall, wind velocity and direction from the exterior sensors to the display station from up to 100 m (325') away. The unit is expandable up to 5 outdoor temperature/humidity transmitters, for climate control of remote rooms, e.g. children's room, wine cellar, or greenhouses. Monitor indoor temperature and humidity with comfort level indicator of indoor climate. View LCD weather forecast with symbols and trend of atmospheric pressure. Also read absolute and relative atmospheric pressure with 24 hours history and bar graph indication of atmospheric pressure, temperature or humidity for the last 24 hours.

The unit includes a radio controlled clock with different alarms and snooze functions with displays of date and day of the week (6 languages). LCD shows time of rising and setting of sun and moon with indication of moon phase. Wind chill factor and dew point with programmable alarms for temperature and storm conditions. Data logging software and cable are included.



Wind speed and direction sensors shown smaller than actual size.



## SPECIFICATIONS

**Radio Frequency:** 433 MHz

**RF Reception Range:**  
30 to 100 m (100 to 328')

**Barometric Pressure:**

**Measuring Range:**  
14.75 to 32.44 inHg  
(500 to 1100 Hpa);  
(374.5 to 823.8 mmHg)

**Resolution:** 0.003 inHg  
(0.1 Hpa, 0.08 mmHg)

**Accuracy:** 0.015 inHg  
(5 Hpa; 0.38 mmHg)

**Sampling Interval:** 20 minutes

**Sea Level Altitude Compensation Range:** -200 to 5000 m  
(657 to 16,404')

**Temperature (Indoor):**

**Operating Range:** -9.9 to 60°C  
(14.2 to 140°F)

**Resolution:** 1°C (2°F)

**Accuracy:** 1°C (2°F)

**Sampling Interval:** 10 sec

**Temperature (Remote):**

**Range:** -40 to 80°C (-40 to 176°F)

**Resolution:** 1°C (2°F)

**Accuracy:** 1°C (2°F)

**Transmitting Interval:**  
Around 47 sec

**Humidity (Indoor):**

**Operating Range:** 30 to 80%

**Resolution:** 1%

**Accuracy:** 5%

**Sampling Interval:** 10 sec

**Humidity (Outdoor):**

**Operating Range:** 30 to 80%

**Resolution:** 1%

**Accuracy:** 5%

**Sampling Interval:** 10 sec

**Transmitting Interval:** Around 47 sec

**Wind Direction:**

**Range:** 0 to 360°

**Resolution:** 22.5°

**Accuracy:** 11.25°

**Starting Threshold:** 3 mph (4.8 Km/h)

**Transmitting Interval:** 33 sec

**Wind Speed:**

**Range:** 0 to 199.9 mph (199.9 Km/h,  
173.7 Knots, 89.3 m/s)

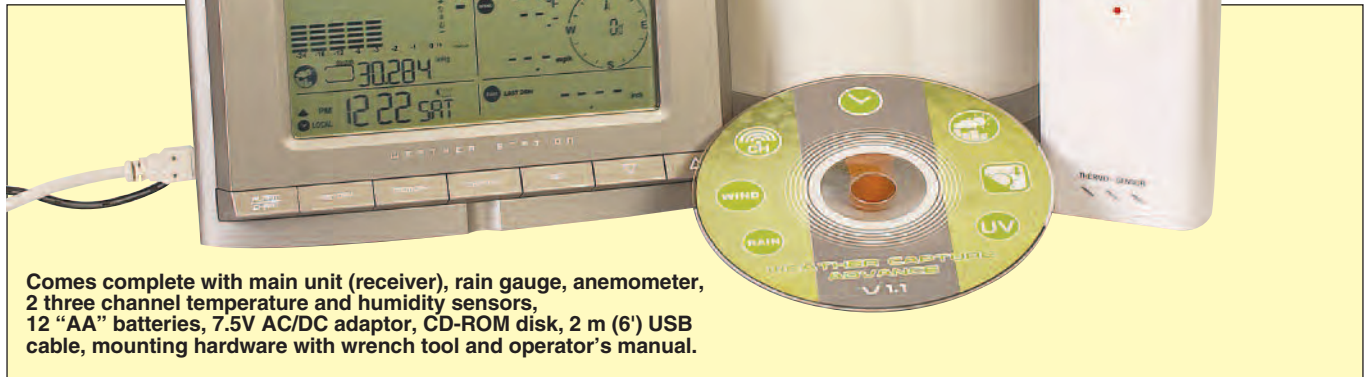
**Resolution:** 0.1 mph (0.16 Km/h)

**Accuracy:** (2 mph + 5%)

**Starting Threshold:** 3 mph (4.8 Km/h)

**Wind/Gust Speed Display Update Interval:** 33 sec

**Wind/Gust Sampling Interval:** 11 sec



Comes complete with main unit (receiver), rain gauge, anemometer, 2 three channel temperature and humidity sensors, 12 "AA" batteries, 7.5V AC/DC adaptor, CD-ROM disk, 2 m (6') USB cable, mounting hardware with wrench tool and operator's manual.

**Rainfall:**

**1h/24h/Yesterday Range:**

0 to 1999.9 mm (0 to 78.73")

**Last Week/Last Month Range:**

0 to 19999 mm (0 to 787.3")

**Resolution:** 0.6578 mm (0.03")

**Accuracy:** ±5% ±0.6875 mm (±5% ±0.03")

**Transmitting Interval:** 183 sec

**Hardware Requirement for**

**PC Software:**

**Operating System:** Windows® 98/NT/2000/ME or XP

**Memory Size:** Ram 128 MB or more

**Hard Disk Size:** 100 MB free space or more

**Media Device:** 1 x CD-Rom drive available serial USB port

**Power Source (12 "AA" Batteries):**

**Main Unit:** 4 x UM-3 or "AA" 1.5 V battery; 7.5 V AC/DC power adaptor (200 mA; center pin positive)

**(2) Remote Thermo Hygrometer:**

2 "AA" 1.5V battery

**Remote Anemometer:** 2 "AA" 1.5 V battery

**Remote Rain Gauge:** 2 "AA" 1.5 V battery

**Battery Life (Alkaline):**

**Main Unit:** 2 month (without adaptor)

**Thermo-Hygrometer:** over 12 months

**Anemometer:** 2 years

**Rain Gauge:** 2 years

**Weight (Without Batteries):**

**Main Unit:** 231 g (8.15 oz)

**Remote Thermo-Hygrometer:**

65 g (2.29 oz)

**Remote Anemometer:**

315 g (11.12 oz)

**Remote Rain Gauge:**

290 g (10.24 oz)

**Dimensions:**

**Main Unit:** 186 L x 137 H x 32 mm D (7.31 x 5.39 x 1.26")

**Remote Thermo-Hygrometer:**

60 L x 101 H x 25 mm D (2.37 x 4 x 1")

**Remote Anemometer:**

486.6 L x 486.6 H x 390 mm D (19.16 x 19.16 x 15.35")

**Remote Rain Gauge:**

165 L x 175 H x 119 mm D (6.49 x 6.89 x 4.72")

**AVAILABLE FOR FAST DELIVERY!**

**To Order (Specify Model Number)**

Model No.	Description
WMS831	Wireless data logging weather station

**Replacement Accessories**

Model No.	Price	Description
WMS831-RG		Replacement rain gauge
WMS831-THT		Replacement three channel temperature-humidity transmitter
WMS831-ADAPTOR		Replacement AC adaptor
WMS831-SW		Replacement software disc
WMS831-CABLE		Replacement USB cable
MN1500-6		Replacement "AA" batteries (2) (12 required to operate)

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**Ordering Example:** WMS831, complete wireless data logging weather station.



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