# TAYLOR.

# Digital Wireless Weather Station with Dual Mount Wind Sensor

Leading the Way in Accuracy®



**Instruction Manual** 

Thank you for purchasing the Taylor® Digital Wireless Weather Station with Dual Mount Wind Sensor. This state-of-the art measurement instrument is engineered and designed to meet the highest quality standards...to assure you uncompromising accuracy and consistently dependable, convenient performance. This instrument will provide measurements of wind speed & direction, wind chill, temperature & humidity.

This manual will describe how to set up and operate your Digital Wireless Weather Station. In order to optimize the unit's function, please read this instruction manual carefully before use... and keep it handy for future reference.

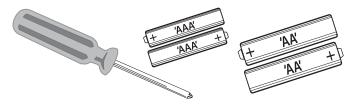
# Items Required for Installation and Set Up

# Items included in this package (shown on page 3):

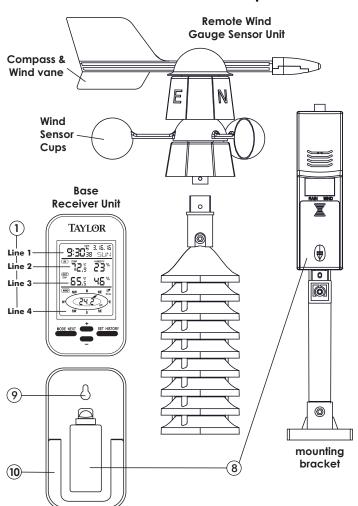
- Base Station (an indoor unit which displays temperature and other readings)
- Wind Gauge Remote Sensor (an outdoor sensor unit which transmits wind, temperature & humidity data to the receiver unit)
- Mounting hardware for the Wind Gauge Remote Sensor (qty 4, M4 x 40 masonry screws and wall anchor)
- 4. Instruction manual

#### Additional items needed for installation (not included):

- 1. A small Phillips screwdriver
- 2. Two (2) AA batteries and two (2) AAA batteries. (Lithium batteries are recommended, especially for the outdoor Wind Gauge Remote Sensor, as lithium batteries will last longer and thus will not need to be replaced as often as alkaline batteries).



# **Description of Parts**



#### Main Features & How to Access Functions

#### 1 - LCD Readout:

Line 1: Displays Clock, Date, and Day of Week

Line 2: Displays Indoor Temperature and Indoor Humidity

**Line 3:** Displays Outdoor Temperature and Outdoor Humidity

**Line 4:** Wind Speed, Wind Direction and High Wind Speed Alert

# 2 - LED Indicator (Wind Gauge Remote Sensor):

Flashes when remote sensor transmits a reading.

B) "HISTORY" Button: Press once to view maximum temperature, humidity, and wind speed readings. Press again to view minimum readings. Press again to return to current readings. While the min or max reading is displayed, press and hold to clear the min or max memory.

Press to select °F or °C temperature scale.

# 8 - Battery Compartments (On back of Receiver Unit and on top of Wind Gauge Sensor base):

The Home Receiver unit uses 2 AAA batteries and Wind Gauge Remote Sensor uses 2AA batteries. Lithium batteries are recommended, especially for the outdoor Wind Gauge Sensor, as lithium batteries will last longer and thus will not need to be replaced as often as alkaline batteries.

#### 9 - Wall Mount (On back of Receiver Unit):

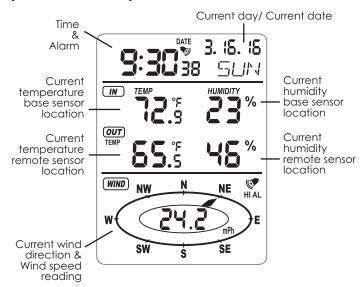
The receiver features a recessed key hole to secure each unit to a nail or other appropriate wall hanger.

#### 10 - Table Stand (Fits on back of Receiver Unit):

Allows stable placement of receiver unit on a flat surface. Insert table stand prongs into slots located at the lower back side of the receiver unit.

# **Display Information**

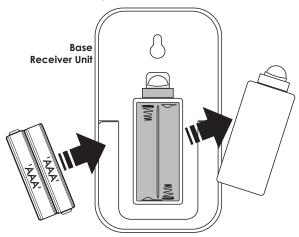
# (LCD Receiver Unit)



# **Installing Home Unit Receiver Batteries**

Important: Install the receiver's batteries first, before installing batteries in the Wind Gauge Remote Sensor:

- Remove the battery compartment cover, located on the back of the receiver unit.
- Insert 2 AAA batteries as indicated by the polarity symbols marked inside the battery compartment.
- 3. Replace the battery compartment cover.
- 4. After battery installation, the receiver unit will automatically search for remote sensors for 2 minutes. The displays on the LCD screen will flash during this Search mode.





# **Battery Warnings:**

NOTE: Please recycle or dispose of batteries per local regulations.

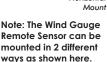
WARNING: Batteries may pose a choking hazard. As with all small items, do not let children handle batteries. If swallowed, seek medical attention immediately.

PRECAUTION: Do not dispose of batteries in fire. Batteries may explode or leak. Remove the batteries if the scale will not be used for a long period of time.

# **Assembling Instructions**

- 1. Properly align the compass and wind cup sensor together to create the wind base; do not press too hard otherwise damage may occur. Insert the connector tube to the bottom of the wind cup sensor and fasten with an M3x22 screw with nut (included).
- Plug the shorter cord into the port located on the bottom of the wind cup sensor.
- 3. Thread the longer cord into the housing through the opening.
- Connect the wind base and top of housing and fasten with an M3x22 screw with nut (included).
- Remove battery compartment cover on the remote sensor and insert 2 AA batteries. Replace battery compartment cover.
- Connect the plastic mounting tube into the base. Thread an M3x25 screw with nut (included) through the aligned openings and tighten.
- Depending upon vertical or horizontal orientation, connect the transmitter to the plastic mounting tube and fasten together with an M3x18 screw (included).
- Plug the long cord from the housing into the port marked "Wind".
- Carefully slide the remote sensor with the mounting tube into the housing.

Horizontal











, Short

Cord

■ Housing

Remote



# Selecting and Testing a Location for the Wind Gauge Remote Sensor

The Wind Gauge Remote Sensor can measure temperature, relative humidity, and wind speed and direction. It will then transmit these readings back to the home receiver unit, up to a distance of 200 feet. Before mounting the remote Wind Gauge Remote Sensor, measure the distance between the monitor and the sensor to be sure they are within an effective transmission range (within 328 feet), and that there are no physical obstructions between the units (such as a shed or trees) that might block transmission signals. The Wind Gauge Remote Sensor should not be blocked by anything on the top or sides, so that wind can freely reach the Sensor for accurate speed and direction reading.

**Note:** The effective range is vastly affected by the building materials and where the receiver and remote units are positioned. Try various set ups for the best results. Shorten the distance between receiver and remote units when necessary.

Important: Though the remote unit is weather-resistant, it should never be submerged in water. It is recommended to perform a transmission test before permanently mounting the Wind Gauge Remote Sensor unit, in case it needs to be moved. To test that the monitor can receive the remote sensor's transmissions:

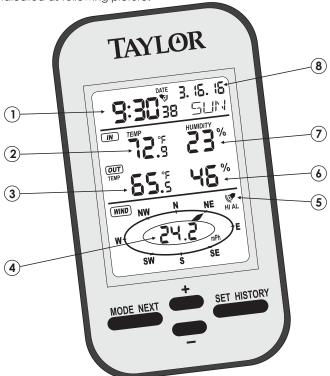
- 1. First install batteries into the home receiver unit, as described in the previous section.
- 2. To install the Wind Gauge Remote Sensor's batteries, remove the cover. Insert 2 AA batteries as indicated by the polarity symbols marked inside the battery compartment.

**PLEASE NOTE:** Lithium batteries are recommended, as they will last longer and thus will not need to be replaced as often as alkaline batteries.



# Operation

After battery installation, the total display mode will lasts 3 seconds and then enter the normal mode. The total display mode is indicated as following picture:



The Wind Gauge Remote Sensor features five buttons: [MODE], [NEXT], [SET/HISTORY], [+], [-]. There are 8 modes including Normal Mode, Clock Mode, Date Mode, Indoor Temperature Mode, Indoor Humidity mode, Outdoor Temperature Mode, Outdoor Humidity Mode, Wind Speed Mode, History Record Mode. In any mode, press [MODE] key to enter next mode. The operation details are stated as follows:

#### 1. Clock Mode

In normal mode, press **[MODE]** to enter the clock mode. Users can set clock and relative settings in this mode. Press **[NEXT]** to change the setting mode:



#### Time zone setting

Users can adjust time zone setting depending on their geographical position (for Europe, UK and USA customers only). Press [+] to increase the time zone value, press [-] to decrease the time zone value.

#### Hour display format setting

Users can adjust the hour format between 12 hour format or 24 hour format. Press [+] or [-] to toggle the format.

# Daylight saving time setting

Daylight saving time is only available when the short circuit point is on the American version. Users can press [+] or [-] to turn on/off the automatic adjusting function depending on actual conditions.

#### Hour setting

Users can adjust the hour of current time in clock mode. Press [+] to increase hour, press [-] to decrease hour, press [+] for increase hour rapidly, press [-] to decrease hour rapidly.

#### Minute setting

Users can adjust minute of current time in clock mode. Press [+] to increase minute, press [-] to decrease minute, press [+] for to increase minute rapidly, press [-] to decrease minute rapidly.

#### Alarm hour setting

Users can adjust the hour of alarm in clock mode. Press [SET/HISTORY] to allow or forbid the alarm ring, press [+] to increase the hour setting, press [-] to decrease the hour setting, press [+] to increase the hour setting rapidly, press [-] to decrease the hour setting rapidly.

# Alarm minute setting

Users can adjust the minute setting of alarm in clock mode. Press [SET/HISTORY] to allow or turn off the alarm ring, press [+] to increase the minute setting, press [-] to decrease the minute setting, press [+] to increase minute setting rapidly, press [-] to decrease minute setting rapidly.

#### 2. Indoor Temperature Mode

In normal mode, press [MODE] six times to enter the indoor temperature mode. In this mode, users can adjust settings related to indoor temperature. Press [NEXT] to toggle the mode of parameters:



#### Indoor temperature unit setting

Users can adjust indoor temperature unit in this mode. Press [+] or [-] to toggle the temperature unit between °F and °C.

#### Indoor high temperature alarm setting

Users can adjust indoor high temperature alarm setting in this mode. Press [SET/HISTORY] to allow or forbid indoor high temperature alarm. Press [+] to increase the value of indoor high temperature alarm, press [-] to decrease the value of indoor high temperature alarm. Press [+] to increase the value of high temperature alarm rapidly, press [-] to decrease the indoor high temperature alarm value.

#### Indoor low temperature alarm setting

Users can adjust the indoor low temperature alarm setting in this mode. Press [SET/HISTORY] to allow or forbid the indoor low temperature alarm. Press [+] to increase the indoor low temperature alarm value, press [-] to decrease the indoor low temperature alarm value, press [+] to increase the indoor low temperature alarm value rapidly, press [-] for to decrease the indoor low temperature alarm value rapidly.

#### Maximum value of indoor temperature display

Users can view the history and time record of the maximum value of indoor temperature. Press [SET/HISTORY] to clean up the history record of maximum value.

# Minimum value of indoor temperature display

Users can view the history and time record of the minimum value of indoor temperature. Press [SET/HISTORY] to clean up the history record of minimum value.

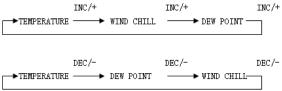
# 3. Outdoor Temperature Mode

In indoor humidity mode, press **[MODE]** to enter the outdoor temperature mode. In this mode, users can adjust settings related to outdoor temperature. Press **[NEXT]** to toggle the parameters setting mode:



#### Outdoor temperature display setting

Users can adjust the outdoor temperature display settings. Press [+] or [-] to adjust the outdoor temperature display value. The following diagram is the order of the outdoor temperature setting:



## Outdoor temperature unit setting

Users can adjust outdoor temperature unit in this mode. Press [+] or [-] to toggle the unit between °F and °C.

# Outdoor high temperature alarm setting

Users can adjust outdoor high temperature alarm setting in this mode. Press [SET/HISTORY] to allow or forbid outdoor high temperature alarm. Press [+] to increase the value of outdoor high temperature alarm, press [-] to decrease the value of outdoor high temperature alarm. Press [+] to increase the value of high temperature alarm rapidly, press [-] to decrease the outdoor high temperature alarm value.

# Outdoor low temperature alarm setting

Users can adjust the outdoor low temperature alarm setting in this mode. Press [SET/HISTORY] to allow or forbid the outdoor low temperature alarm. Press [+] to increase the outdoor low temperature alarm value, press [-] to decrease the outdoor low temperature alarm value, press [+] to increase the outdoor low temperature alarm value rapidly, press [-] to decrease the outdoor low temperature alarm value rapidly.

#### Maximum value of outdoor temperature display

Users can view the history and time record of the maximum value of outdoor temperature. Press [SET/HISTORY] to clean up the history record of maximum value.

# Minimum value of outdoor temperature display

Users can view the history and time record of the minimum value of outdoor temperature. Press [SET/HISTORY] to clean up the history record of minimum value.

#### 4. Wind Speed Mode

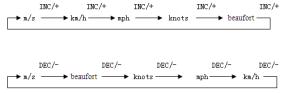
In outdoor humidity mode, press [MODE] to enter the wind speed mode. In this mode, users can adjust settings related to the wind speed. Press [NEXT] to change the parameters setting mode:

#### Wind speed display setting

Users can adjust wind speed display setting in this mode, press [+] or [-] to toggle between the average wind speed and gust speed.

#### Wind speed units setting

Users can adjust wind speed units in this mode. Press [+] or [-] to adjust the display format:



# 5. High wind speed alarm setting

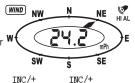
Users can adjust high wind speed alarm setting in this mode, press [SET/HISTORY] to allow or forbid high wind speed alarm. Press [+] to increase the alarm value of high wind speed, press [-] to decrease the alarm value of high wind speed. Press [+] to increase the alarm value rapidly, press [-] to decrease the alarm value rapidly.

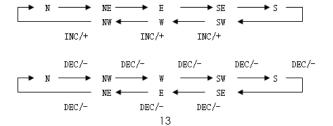
# Wind direction alarm setting

INC/+

Users can adjust the wind direction setting in this mode. Press [SET/HISTORY] to allow or forbid wind direction alarm. Press [+] or [-] to adjust the wind direction of the alarm.

INC/+





TNC/+

#### 6. Outdoor Humidity Mode

In the outdoor temperature mode, press **[MODE]** to enter the outdoor humidity mode. In this mode, users can adjust the settings related to outdoor humidity. Press **[NEXT]** to change the parameters setting mode:



#### Outdoor high humidity alarm setting

Users can adjust the outdoor high humidity alarm setting in this mode. Press [SET/HISTORY] to allow or forbid the outdoor high humidity alarm ring, press [+] to increase the outdoor high humidity alarm value, press [-] to decrease the outdoor high humidity alarm value, press [+] to increase the outdoor high humidity alarm value rapidly, press [-] to decrease the outdoor high humidity alarm value

# Outdoor low humidity alarm setting

Users can adjust outdoor low humidity alarm settings in this mode. Press [SET/HISTORY] to allow or forbid outdoor low humidity alarm ring, press [+] to increase the outdoor low humidity alarm value, press [-] to decrease the outdoor low humidity alarm value rapidly, press [-] to decrease the outdoor low humidity alarm value rapidly, press [-] to decrease the outdoor low humidity alarm value.

#### Maximum value of outdoor humidity display

Users can view the history and time record of the maximum value of outdoor humidity. Press [SET/HISTORY] to clean up the history record of maximum value.

#### Minimum value of outdoor humidity display

Users can view the history and time record of the minimum value of outdoor humidity. Press [SET/HISTORY] to clean up the history record of minimum value.

#### 7. Indoor humidity mode

In the indoor temperature mode, press **[MODE]** to enter the indoor humidity mode. In this mode, users can adjust the settings related to indoor humidity. Press **[NEXT]** to change the parameters setting mode:



#### Indoor high humidity alarm setting

Users can adjust the indoor high humidity alarm setting in this mode. Press [SET/HISTORY] to allow or forbid the indoor high humidity alarm, press [+] to increase the indoor high humidity alarm value, press [-] to decrease the indoor high humidity alarm value, press [+] to increase the indoor high humidity alarm value rapidly, press [-] to decrease the indoor high humidity alarm value.

#### Indoor low humidity alarm setting

Users can adjust indoor low humidity alarm settings in this mode. Press [SET/HISTORY] to allow or forbid indoor low humidity alarm, press [+] to increase the indoor low humidity alarm value, press [-] to decrease the indoor low humidity alarm value, press [+] to increase the indoor low humidity alarm value rapidly, press [-] to decrease the indoor low humidity alarm value.

# Maximum value of indoor humidity display

Users can view the history and time record of the maximum value of indoor humidity. Press **[SET/HISTORY]** to clean up the history record of maximum value.

#### Minimum value of indoor humidity display

Users can view the history and time record of the minimum value of indoor humidity. Press [SET/HISTORY] to clean up the history record of minimum value.

#### 8. Date Mode

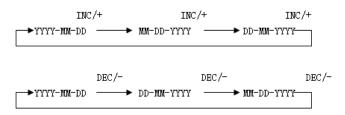
In clock mode, press **[MODE]** key to enter the date mode. In date mode, users can adjust settings related to date. Press **[NEXT]** to change the parameters setting mode: 3. **15. 15** 5UN

#### Contrast value setting

Users can adjust the display contrast value in this mode. Press [+] to increase the contrast value, press [-] to decrease the contrast value.

#### Date display format setting

Users can adjust the date display format in this mode. Press [+] or [-] to adjust the date display format. The following diagram shows the order of date display format:



#### Year setting

Users can adjust the year setting in this mode, press [+] to increase the year setting, press [-] to decrease the year setting, Press [+] to increase year setting rapidly, press [-] to decrease year setting rapidly.

# Month setting

Users can adjust month setting in this mode. Press [+] to increase month setting, press [-] to decrease month setting, press [+] to increase month setting rapidly, press [-] to decrease month setting rapidly.

#### Date setting

Users can adjust date setting in this mode. Press [+] to increase the date setting, press [-] to decrease the date setting. Press [+] to increase the date setting rapidly, press [-] to decrease date setting rapidly.

#### History record mode

In normal display mode, press [SET/HISTORY] to enter the history record mode. In this mode, users can check the history data records in past 20 hours, press [+] to view next history data record, press [-] to view previous history data record. In normal display mode, press [MODE] key and [SET/HISTORY] key together for 3 seconds to enter the factory regulation mode. In factory regulation mode, the accuracy of indoor/outdoor temperature, indoor/outdoor humidity and atmospheric pressure sensors can be adjusted.

# **Troubleshooting**

If the Receiver does not receive a transmission from a remote unit channel for 10 minutes, the wind speed, outdoor temperature and humidity will show dashes. To correct this problem:

- Go to the remote location of that channel to check that the unit is properly positioned, within the appropriate transmission range.
- 2. If new batteries are faulty on the initial installation, install fresh batteries. If you did not notice the Low Battery icon warning and the product performed correctly after initial set up, the batteries have lost their charge. Replace the batteries.
- Check to make sure the transmission path is clear of obstacles and interference.

# **FCC Info**

**Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Code: RMW-2752N

#### **Use & Care**

- 1. The home receiver is intended for indoor use only. It is not sealed against moisture and could be damaged if used outdoors.
- Do not immerse the receiver in water. If you spill liquid on it, dry immediately with a soft, lint-free cloth.
- 3. The Wind Gauge Remote Sensor is weather-resistant but not waterproof. Do not immerse it in water or allow snow to accumulate on it. If this accidentally occurs, dry it immediately with a soft, lint-free cloth.
- 4. Though the Wind Gauge Remote Sensor is weather-resistant, it should not be left outdoors in extreme weather conditions. If these conditions become likely to occur, temporarily move the transmitter to an indoor area. Otherwise, permanent damage to the sensor's internal circuits or external wind vane may occur.
- Do not mount the Wind Gauge Remote Sensor on a metal surface.
- Do not subject the Wind Gauge Remote Sensor to extremely severe temperatures.
- Do not clean either unit with abrasive or corrosive materials. This may scratch plastic parts and corrode electronic circuits.
- **8.** Do not subject either unit to excessive force, shock, dust, temperature or humidity. This may result in malfunction, shorter electronic life span, damaged battery or distorted parts.
- 9. Do not tamper with either unit's internal components. Doing so will invalidate the warranty on this product and may cause damage. The unit contains no user-serviceable parts.
- 10. Do not mix old and new batteries. Do not dispose of batteries in fire. Batteries may explode or leak. Do not mix Alkaline, carbonzinc (standard) or Nickel-Cadmium (rechargeable) batteries. Remove the batteries if the units will not be used for a long period of time.
- Always read the instruction manual before operating this product.

**Important:** Though the Wind Gauge Remote Sensor is weather-resistant, it should never be submerged in water. If extreme weather conditions are likely to occur, temporarily move the transmitter to an indoor area for protection.

# **Specification**

- Indoor/outdoor temperature display. Display units options: °F / °C (user setting).
- Indoor temperature range: 32°F to 122°F (0°C to 50°C);
- Outdoor Temperature range:

Alkaline batteries: -4°F to 140°F (-20°C to 60°C) Lithium batteries: -40°F to 140°F (-40°C to 60°C);

- Resolution (for both indoor/outdoor temperature): ±2°F/±1°C
- Temperature accuracy: ±2°F/±1°C
- Humidity range: 20% to 90%
- Humidity accuracy:±5%
- Receiver: Alkaline battery: 2 AAA 1.5V
- Wind Gauge Remote Sensor: Alkaline battery: 2 AA 1.5V or AA lithium battery
- Battery life: 12 months (Approx.)
- Station dimension: 20.5" height x 9" diameter
- Receiver dimensions: 4.9" height x 2.7" width x 0.8" thickness
- Display dimension: 2.36" height x 1.77" width
- Perpetual calendar
- The hour display format can be set between 12 hour format or 24 hour format. The time zone can be set from-12 to +12(user setting).
- Daylight saving time is adjusted automatically (The daylight saving time is adjusted on the basis of different time zone).
- The date display format can be set as: YYYY-MM-DD, MM-DD-YYYY, DD-MM-YYYY (user setting).
- Wireless 433 MHZ receiving. Available distance: 328 ft in open field. While receiving RF, press any key to quit.
- Indoor/outdoor relative humidity (RH %) display. Display range: 20% to 99%. Resolution: 5%.
- Wind-chill temperature display. Display units options: °F / °C (user setting).
- $\bullet$  Dew-point temperature display. Display units options: °F / °C (user setting).
- Wind speed and wind direction display. Average wind speed and gusts display. The units can be set as m/s,km/h,mph,knots or bft (user setting). Wind speed range: 0 to 50 m/s; Wind direction range: E,S,W,N,SE,NE,SW,NW.
- All maximum/minimum data can be recorded and displayed. In addition, the time of recorded data can be displayed as well.
- The weather alarm can be set separately, any value can be set. The alarm signal lasts 2 minutes.

# One (1) Year Limited Warranty

Taylor® warrants this product to be free from defects in material or workmanship (excluding batteries) for one (1) year for the original purchaser from date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and/or repair. If service is required, do not return to retailer. Should this product require service (or replacement at our option), please pack the item carefully and return it prepaid, along with store receipt showing the date of purchase and a note explaining reason for return to:

# Taylor Precision Products, Inc. 2220 Entrada Del Sol, Suite A Las Cruces, New Mexico 88001 Customer Service Phone: 1-800-225-4834

Customer Service Fax: 1-575-526-4347

There are no express warranties except as listed above. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For additional product information, or warranty information outside the USA, please contact us through www.shoptaylorusa.com

# Made to our exact specifications in China.

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#### Caution:

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.