

PROFESSIONAL WEATHER CENTER WS-1610

Operation Manual

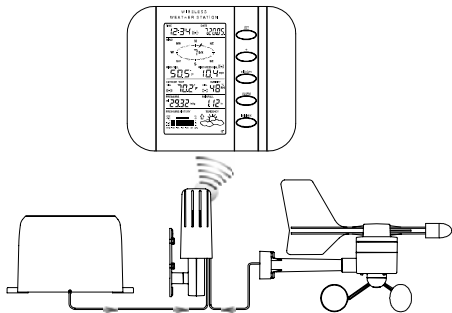


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PROFESSIONAL WEATHER CENTER

Instruction Manual

Congratulations on purchasing this state-of-the-art Professional Weather Center as an example of excellent design and innovative technology. Featuring time, date, calendar, weather forecast, wind direction and speed, rainfall, outdoor temperature and outdoor humidity, air pressure and various alarm settings for different weather conditions, this Weather Center will provide you with extensive weather information and forecast.

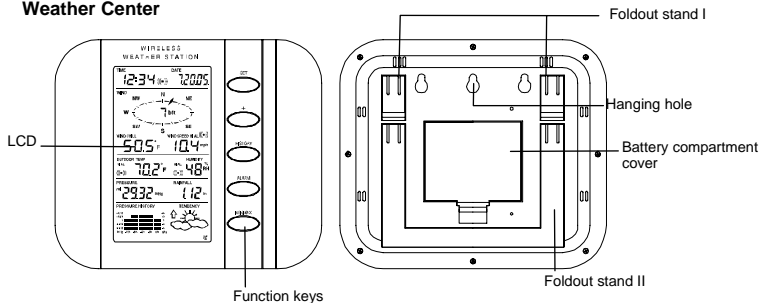
This product offers:



INSTANT TRANSMISSION is the state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY. ***INSTANT TRANSMISSION*** offers you an immediate update (every 4.5 seconds!) of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!

FEATURES:

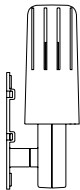
Weather Center



- Time display (manual setting)
- 12/24 hour time display
- Calendar display (weekday, date, month, year)
- Time alarm function
- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature display in °F/°C
- Outdoor Humidity display as RH%
- MIN/MAX value of outdoor temperature and humidity display with time & date of recording

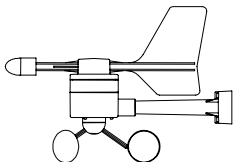
- Low/High outdoor temperature and humidity alarm
- Relative air pressure displayed in inHg or hPa
- Air pressure tendency indicator for the past 12 hours (bargraph format)
- LCD contrast selectable
- Low battery indicator
- Wind direction displayed in 16 steps
- Wind speed displayed in mph, km/h, or m/s, and Beaufort scale
- Wind chill displayed in °F or °C
- Max wind speed displayed with time & date of recording
- High alarm function for wind speed
- Manual reset of outdoor temperature/ humidity, pressure and wind chill data
- Total rainfall displayed in mm or inch
- Storm warning alarm
- Buzzer on/off selectable
- Storage of 200 sets of history weather data recorded in 3-hour intervals
- Wireless transmission at 915 MHz
- Transmission range up to 330 feet (100 meters)

Thermo-hygro Sensor



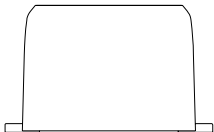
- Remote transmission of the outdoor temperature and humidity to the Weather Center at 915 MHz
- Weather-resistant casing
- Wall mounting case (to be mounted in a sheltered place. Avoid direct rain and sunshine)

Wind Sensor

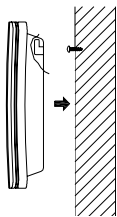


- Connected to the thermo-hygro sensor by cable
- Can be installed onto a mast or a horizontal panel

Rain Sensor

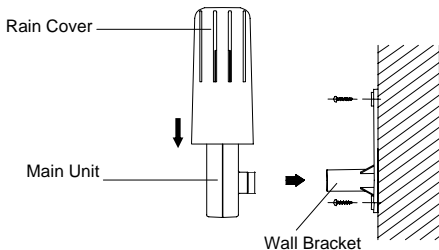


- Connected to the thermo-hygro sensor by cable
- To be mounted onto a horizontal panel



1. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm.
2. Hang the Center onto the screw. Remember to ensure that it locks into place before releasing.

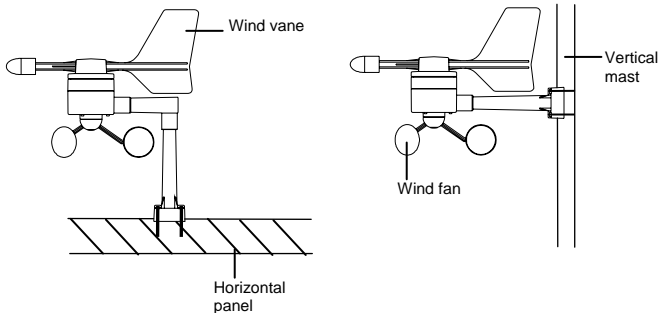
Thermo-hygro Sensor



An ideal mounting place for the Thermo-hygro sensor would be the outer wall beneath the extension of a roof, as this will protect the sensor from direct sunlight and other extreme weather conditions.

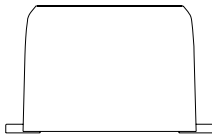
To wall mount, use the 2 screws to affix the wall bracket to the desired wall, plug in the Thermo-hygro sensor to the bracket and secure both parts by the use of the supplied screw and ensure that the cables from the wind and rain sensors are correctly plugged in otherwise data transmission errors could occur.

Wind Sensor



Firstly, check that the wind-fan and the wind-vane can rotate freely before fixing the unit. For correct and accurate readings it is important to mount the sensor so that the front (marked E) is pointing in East-West direction. The wind sensor should now be mounted using the screw or cable tie provided onto a solid wall/ panel mast or mast to allow the wind to travel around the sensor unhindered from all directions (ideal mast size should be from diameter about $\frac{5}{8}$ " to $1\frac{1}{4}$ "). Once the wind sensor is fixed onto the mast, connect the cable to the corresponding thermo-hygro sensor socket so that operating power supply can be received and data can be transmitted to the base station.

Rain Sensor



For best results, the rain sensor should be securely mounted onto a horizontal surface about 1 meter above the ground and in an open area away from trees or other coverings where rainfall may be reduced causing inaccurate readings.

When securing into place, check that rain excess will not collect and store at the base of the unit but can flow out between the base and the mounting surface (test by pouring clean water).

After mounting the rain sensor, connect the cable to the thermo-hygro sensor at the corresponding socket so power supply can be received and data be transmitted to the base station

The rain sensor is now operable. For testing purposes, very slowly pour a small amount of clean water into the rain sensor funnel. The water will act as rainfall and will be received and displayed at the base station after about 2 minutes delay i.e. when the reading interval is reached.

CARE AND MAINTENANCE:

- Extreme temperatures, vibration and shock should be avoided as these may cause damage to the units and give inaccurate forecasts and readings.
- When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings.
- Do not submerge the units in water.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type.
- Do not make any repair attempts to the units. Return it to their original point of purchase for repair by a qualified engineer. Opening and tampering with the units may invalidate their guarantee.
- Do not expose the units to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy.

SPECIFICATIONS:

Temperature measuring range:

Outdoor : -40°F to +139.8°F with 0.2°F resolution
-40°C to +59.9°C with 0.1°C resolution
("OF.L" displayed if outside this range)

Relative humidity measuring range:

Outdoor : 1% to 99% with 1% resolution
("-" displayed if < 1%, "99" displayed if ≥ 99%)

Wind speed : 0 to 111.8 mph (0 to 50 m/s)
(displayed "OF.L" when > 50m/s)

Wind chill : -40°F to +139.8°F (-40°C to +59.9°C)
(displayed "OF.L" if outside this)

Relative pressure pre-set range : 27.17 to 31.90 inHg (919 to 1080 hPa)

Rainfall : 0" to 393.6" (0 to 9999 mm) (displayed
"OF.L" when > 9999mm)

Outdoor data reception : every 4.5 seconds

Air pressure checking interval : every 15 seconds

Transmission range : up to 330 feet (100meters) in open space

Power:

Weather Center : 3 x AA, IEC LR6, 1.5V

Thermo-hygro sensor : 2 x AA, IEC LR6, 1.5V

Battery life : approximately 24 months (Alkaline batteries
recommended)

Dimensions (L x W x H)

Weather Station	:	6.51" x 1.21" x 5.58" (165.4 x 30.8 x 141.9 mm)
Thermo-hygro transmitter	:	2.25" x 2.44" x 6.18" (57.3 x 62 x 157 mm)
Wind sensor	:	9.84" x 6.45" x 7.58" (250 x 164 x 192.7 mm)
Rain sensor	:	5.51" x 2.75" x 5.39" (140 x 70 x 137 mm)

LIABILITY DISCLAIMER

- The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.
- Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection.
- All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.
- The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.
- As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user. This product must however not be thrown in general rubbish collection points.
- The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.
- This product is designed for use in the home only as indication of the temperature.
- This product is not to be used for medical purposes or for public information.
- The specifications of this product may change without prior notice.

- This product is not a toy. Keep out of the reach of children.
- No part of this manual may be reproduced without written authorization of the manufacturer.

WARRANTY INFORMATION

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

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