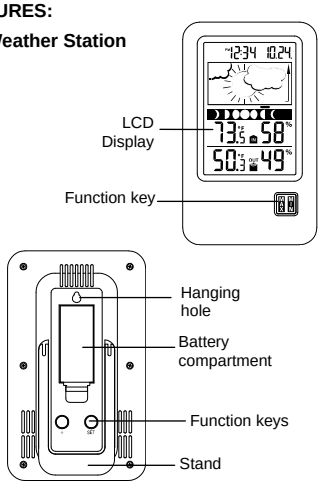
WEATHER STATION
Instruction Manual

INTRODUCTION:
Congratulations on purchasing this state-of-the-art weather station as an example of innovative design and quality piece of engineering. Providing radio controlled time, calendar, weather forecast, moon phase, indoor and outdoor temperature, indoor and outdoor relative humidity. This unit will never keep you guessing on current and future weather conditions. Operation of this product is simple and straightforward. By reading this operating manual, the user will receive a better understanding of the Weather Station together with the optimum benefit of all its features.

FEATURES:

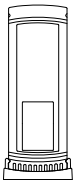
The Weather Station



- 12/24 hour time display
- Calendar display (year only in setting mode)
- Display 8 Moon phases throughout the year

- Weather forecasting with weather tendency indicator
- Indoor and outdoor temperature display with MIN/MAX records
- Temperature display in ºC/ ºF
- Indoor and outdoor humidity display
- Humidity data display as RH%
- Low battery indicator
- Table standing or wall mounting

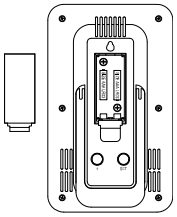
Thermo-Hygro Transmitter



- Remote transmission of outdoor temperature and humidity to weather station by 915MHz
- Wall mounting case
- Mounting at a sheltered place. Avoid direct rain and sunshine

TO INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION

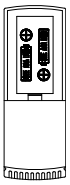
The weather station uses 2 x AAA, IEC LR3, 1.5V batteries. To install and replace the batteries, please follow the steps below:



1. Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover.
2. Insert batteries observing the correct polarity (see marking).
3. Replace compartment cover.

TO INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO TRANSMITTER

The outdoor thermo-hygro transmitter uses 2 x AAA, IEC LR3, 1.5V batteries. To install and replace the batteries, please follow the steps below:



1. Remove the battery cover.
2. Insert the batteries, observing the correct polarity (see battery compartment marking).
3. Replace the battery cover on the unit.

Note:
In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is due to a random security code assigned by the transmitter at start-up. This code must be received and stored by the weather station in the first 3 minutes of power being supplied to the transmitter.

BATTERY CHANGE:
It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of these units.

Please participate in the preservation of the environment. Return used batteries to an authorized depot.

SETTING UP

1. First, insert the batteries in the transmitter (see "T**o install and replace batteries in the thermo-hygro transmitter**" above).
2. Within 2 minutes of powering up the transmitter, insert the batteries in the Temperature Station (see "T**o install and replace batteries in the weather station**" above). Once the batteries are in place, all segments of the LCD will light up briefly. Following the indoor temperature/humidity and the time as 12:00 will be displayed. If these information are not displayed on the LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. Once the indoor data is displayed user may proceed to the next step.
3. After the batteries are inserted, the weather station will start receiving data signal from the transmitter. The outdoor temperature and humidity data should then be displayed on the weather station. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from

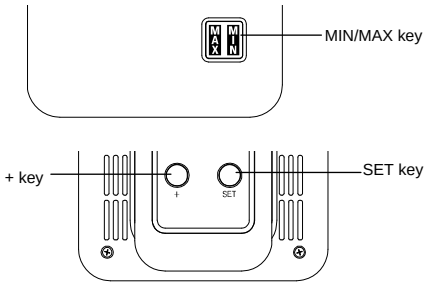
step 1.

4. In order to ensure sufficient 915 MHz transmission however, the distance between the Weather Station and the transmitter should not be more than 330 feet (100 meters) (see notes on "**Positioning" and "915 MHz Reception**").

Note:
In the event of changing batteries of the units, ensure the batteries do not spring free from the contacts. Always wait at least 1 minute after removing the batteries before reinserting, otherwise start up and transmission problems may occur.

FUNCTION KEYS:

Weather Station:
The Weather Station has 3 easy to use function keys: 1 key on the front, and 2 keys on the back

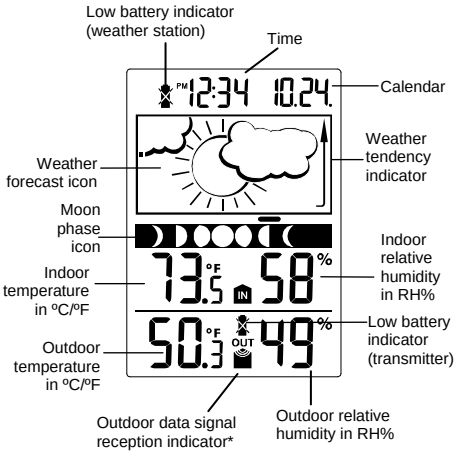


SET key
- Press and hold the key to enter manual setting modes: manual time setting, and calendar

+ key
- Increase, change, toggle all values in manual set mode

MIN/MAX key
- Press shortly to toggle between indoor and outdoor MAX/MIN temperature and current temperature

LCD SCREEN
The LCD screen is split into 5 sections displaying the information for time/calendar, weather forecast, moon phase, indoor data, and outdoor data.

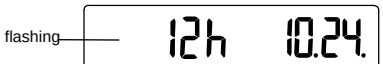


* When the signal is successfully received by the weather station, the outdoor transmission icon will be switched on. (If not successful, the icon will not be shown on LCD). The user can then easily see whether the last reception was successful (icon on) or not (icon off).

MANUAL SETTINGS:
The following manual settings can be changed when pressing the **SET** key for:

- 12/24 time display setting
- Manual time setting
- Calendar setting
- ºF/ºC temperature display setting

12/24 HOUR TIME DISPLAY SETTING

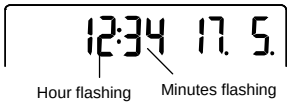


To set the time format in 12h or 24h display:

1. “12h” or “24h” will start flashing. (default 12h)
2. Press the **+** key to select the “12h” or “24h” display mode.
3. Confirm with the **SET** key and enter the “**Manual time setting**”.

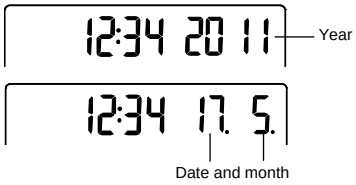
Note:
When 12h mode display is selected, the calendar format will be "Month. Day" display. When 24h mode display is selected, the calendar format will be "Day. Month" display.

MANUAL TIME SETTING:
To set the time.



1. The hour digit will start flashing.
2. Use the **+** key to set the hour.
3. Press again the **SET** key to set the minutes. The minute digits start flashing.
4. Use the **+** key to set the minutes.
5. Confirm with the **SET** key and enter the **Calendar setting**.

CALENDAR SETTING:

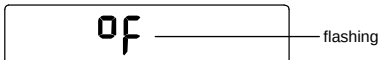


The date default of the weather station is 1. 1. 2011.
To set the calendar:

1. The year starts flashing.
2. Use the **+** key to set the year (between year 2011-2039).

3. Press the **SET** key again to confirm and to enter the month setting. The month starts flashing.
4. Use the **+** key to set the month.
5. Press the **SET** key again to confirm and to enter the date setting mode. The date starts flashing.
6. Use the **+** key to set the date.
7. Confirm all calendar settings with the **SET** key and "**ºF/ºC temperature display setting**".

°F/°C TEMPERATURE UNIT SETTING



The default temperature display is set to °F (degree Fahrenheit). To select °C (degree Celsius):

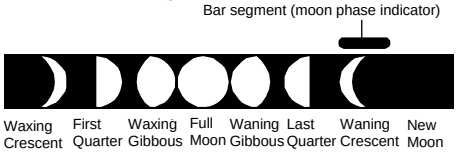
1. The "°F or °C" will start flashing,
2. Use the **+** key to toggle between "°C" and "°F".
3. Once the desired temperature unit has been chosen, confirm with the **SET** key and exit the setting mode.

TO EXIT THE MANUAL SETTING MODE

To exit the manual setting mode anytime during the manual setting, wait for automatic timeout. The mode will return to normal time display.

MOON PHASES SYMBOL

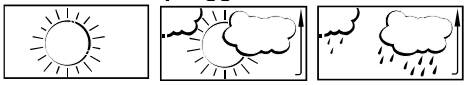
The moon icon of the weather station will also display all 8 moon phases throughout the year according to the set calendar. A bar segment above the moon phase will indicate current moon phase.



WEATHER FORECAST AND WEATHER TENDENCY:

WEATHER FORECASTING ICONS:

The weather icons in the second section of LCD can be displayed in any of the following combinations:



Sunny **Cloudy with sunny intervals** **Rainy**

For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. If the icons do not change, then it means either the air pressure has not changed or the change has been too slow for the Weather station to register. However, if the icon displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes.

The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy.

Note:
After setting up, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the Weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast.

Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the Weather station has been designed for use. In areas that experience sudden changes in weather (for example from sunny to rain), the Weather station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the weather station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), discard the weather forecast for the next 12-24 hours. By doing this, the Weather Station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude.

WEATHER TENDENCY INDICATOR

Working together with the weather icons is the weather tendency indicators (located on the left and right sides of the weather icons). When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse.

Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only). Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards.

Note:

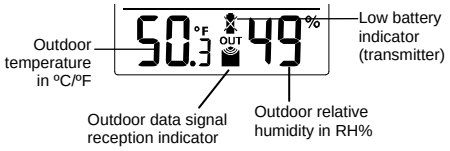
Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD.

INDOOR TEMPERATURE/HUMIDITY DATA

The indoor temperature and humidity data are automatically updated and displayed on the fourth section of the LCD.

OUTDOOR TEMPERATURE/HUMIDITY DATA

The last LCD section shows the outdoor temperature and humidity, and the reception indicator.



TOGGLING AND RESETTING THE MIN/MAX DATA

TO VIEW THE MIN/MAX DATA

Press the **MIN/MAX** key several times to view the MIN/MAX indoor temperature, and MIN/MAX outdoor temperature sequentially.

TO RESET THE MIN/MAX DATA

Press and hold **MIN/MAX** key for 3 seconds to reset all the indoor and outdoor temperature to current temperatures.

LOW BATTERY INDICATOR

Low battery indicator is displayed on the LCD when the batteries require changing.

ABOUT THE THERMO-HYGRO TRANSMITTER

The range of the thermo-hygro transmitter may be affected by the temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when positioning the transmitters. Also the batteries may be reduced in power for the thermo-hygro transmitter.

CHECKING FOR 915MHz RECEPTION

If the outdoor temperature and humidity data are not being received within three minutes after setting up (or outdoor display always show "- -.-" in the outdoor section of the Weather station during normal operation), please check the following points:

1. The distance of the weather station or transmitters should be at least 5 to 6.5 feet (1.5 -2 meters) away from any interfering sources such as computer monitors or TV sets.
2. Avoid placing the transmitters onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the 915MHz-signal

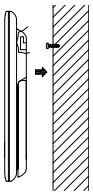
frequency may prevent correct signal transmission or reception.

4. Neighbors using electrical devices operating on the 915MHz-signal frequency can also cause interference.

Note:
When the 915MHz signal is received correctly, do not re-open the battery cover of either the transmitter or weather station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see **"Setting up"** above) otherwise transmission problems may occur.
The transmission range is around 330 feet (100 meters) from the thermo-hygro transmitter to the weather station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see **"Setting up"** above).

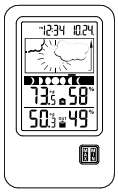
POSITIONING THE WEATHER STATION

The weather station provides the option of table standing or wall mounting the unit. Before wall mounting, please check that the outdoor data can be received from the desired locations.



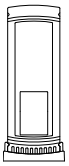
To wall mount:

1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm.
2. Place the weather station onto the screw, using the hanging hole on the backside. Gently pull the weather station down to lock the screw into place.



Foldout table stand:
The foldout table stand leg is located on the backside. Pull the stand out from the bottom center edge of the weather station, below the battery compartment. Once the foldout table stand is extended, place the weather station in an appropriate location.

POSITIONING THE THERMO-HYGRO TRANSMITTER



Mounting at a sheltered place. Avoid direct rain and sunshine.

The thermo-hygro transmitter can be placed onto any flat surface or wall mount using the bracket which doubles as a stand or wall mount base.

To wall mount:

1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the transmitter onto the bracket.

Note:

Before permanently fixing the thermo-hygro to the wall base, pace all units in the desired locations to check that the outdoor temperature and humidity readings are receivable. In event that the signal is not received, relocate the thermo-hygro transmitter or the weather station slightly as this may help the signal reception.

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:

Indoor : 14.1°F to +139.8°F with 0.2°F resolution
-9.9ºC to +59.9ºC with 0.1°C resolution
("OF.L" displayed if outside this range)

Outdoor : -39.8°F to +139.8°F with 0.2°F resolution
-39.9ºC to +59.9ºC with 0.1°C resolution
("OF.L" displayed if outside this range)

Indoor humidity range: 20% to 95% with 1% resolution
(Display "- -" if temperature is OL.F; display "19%" if < 20% and "96%" if > 95%)

Outdoor humidity range : 1% to 99% with 1% resolution
(Display "- -" if outside temperature is OF.L; display 1% if < 1% and 99% if > 99%)

Data checking intervals

Indoor temperature : every 16 seconds
Indoor humidity : every 64 seconds
Outdoor temperature and humidity: every 4 seconds
Transmission range : up to 100 meters (open space)

Power consumption (alkaline batteries recommended):

Weather station : 2 x AAA, IEC LR3, 1.5V
Thermo-hygro transmitter : 2 x AAA, IEC LR3, 1.5V
Battery life : up to 24 months

Dimensions (L x W x H):

Weather station : 3.72" x 0.78" x 6.18"
94.6 x 20 x 157mm
Thermo-hygro transmitter : 1.41" x 0.62" x 4.03"
36 x 16 x 102.6mm

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.

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 no 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:

La Crosse Technology
2817 Losey Blvd. S.
La Crosse, WI 54601

www.lacrossetechnology.com/9060

FCC ID: OMO-M-15 (transmitter)
FCC DISCLAIMER

RF Exposure mobile:
The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Statement according to FCC part 15.19:
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.

Statement according to FCC part 15.21:
Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:
NOTE: 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.