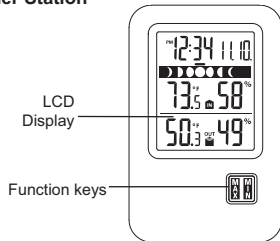## WS-9066U-IT
WEATHER STATION
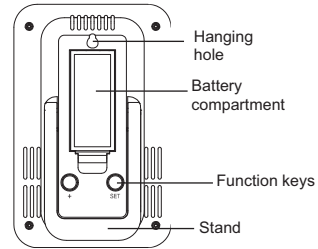### Instruction Manual

INTRODUCTION:
Congratulations on purchasing this state-of-the-art weather station as an example of innovative design and quality piece of engineering. Provides 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.

FEATURES:

The Weather Station

LCD Display

Function keys

1

Hanging hole

Battery compartment

Function keys

Stand

- 12/24 hour time display
- Calendar display (year only in setting mode)
- Display 8 Moon phases throughout the year
- Temperature display in ºC/ ºF
- Indoor and outdoor temperature display with MIN/MAX records
- Indoor and outdoor humidity display
- Humidity data display as RH%
- Low battery indicator
- Table standing or wall mounting

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Thermo-Hygro Transmitter

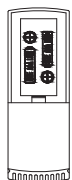Remote transmission of outdoor temperature and humidity to weather station by 915MHz

- Wall mount bracket
- Mounting at a sheltered place.
- Avoid direct rain and sunshine

DO NOT MIX OLD AND NEW BATTERIES.

DO NOT MIX ALKALINE, STANDARD, OR RECHARGEABLE BATTERIES

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.
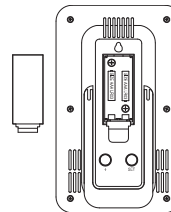
Note:
In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is due to a random security

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.

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 marks).

3. Replace compartment cover.

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.

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SET UP

1. First, insert the batteries in the transmitter (see "T**o install and replace batteries in the thermo-hygro transmitter**" above). Keep 5-10 feet from the display for 15 minutes during set up.
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 this information is 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 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" & "915 MHz reception**").
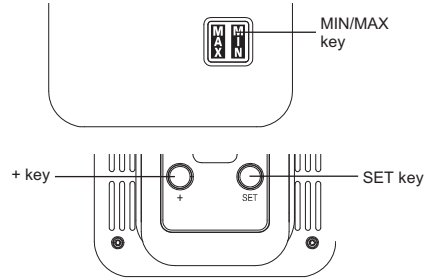
Note:
When changing batteries in the units, ensure the batteries do not spring free from the contacts. Always wait at least 15 minutes after removing the batteries before reinserting, otherwise start up and transmission problems may occur.

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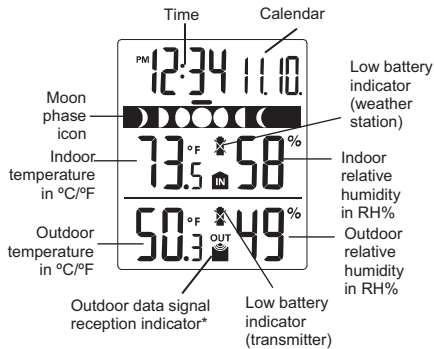
+ key
- Increase, change, toggle all values in manual set mode

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 4 sections displaying the information for time/calendar, moon phase, indoor data, and outdoor data.

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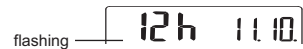
will be switched on. (If not successful, the icon will not be shown on LCD). The user can then easily see whether the last reception was successful (icon on) or not (icon off).

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
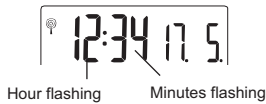

To set the time format in 12h or 24h display:
1. "12h" or "24h" will flash. (default 12h)
2. Press the **+** key to select the "12h" or "24h" display mode.
3. Confirm with the **SET** key and enter the "**Manual time setting**".

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.
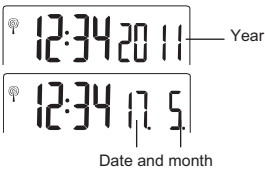
MANUAL TIME SETTING:
To set the time.

Hour flashing   Minutes flashing

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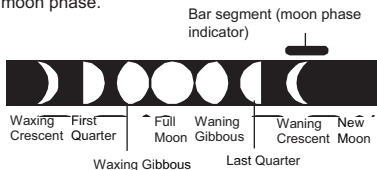5. Confirm with the **SET** key and enter the **Calendar setting**.

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

Year

Date and month

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

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3. Press the **SET** key again to confirm and to enter the month setting. The month will flash.
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 will flash.
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

flashing

The default temperature display is set to °F (degree Fahrenheit). To select °C (degree Celsius):
1. The "°F or °C" will flash.
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.
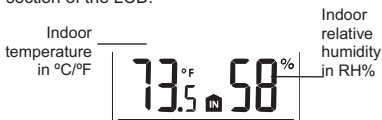
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MOON PHASES SYMBOL
The moon icon of the weather station will also display all 8-moon phases throughout the year according to the set calendar. A bar segment above the moon phase will indicate current moon phase.

Bar segment (moon phase indicator)

Waxing Crescent   First Quarter   Full Moon   Waning Gibbous   Waning Crescent   New Moon

Waxing Gibbous   Last Quarter

INDOOR TEMPERATURE/HUMIDITY DATA
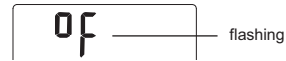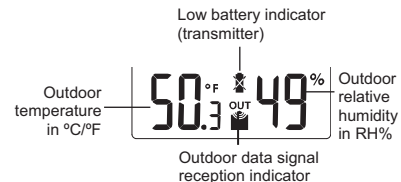The indoor temperature and humidity data are automatically updated and displayed on the third section of the LCD.

Indoor temperature in °C/°F

Indoor relative humidity in RH%

OUTDOOR TEMPERATURE/HUMIDITY DATA
The last LCD section shows the outdoor temperature and humidity, and the reception indicator.

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Low battery indicator (transmitter)

Outdoor temperature in °C/°F

Outdoor relative humidity in RH%

Outdoor data signal reception indicator

VIEW AND RESET THE MIN/MAX DATA

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.

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 temperature may affect the range of the thermo-hygro transmitter. 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.

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CHECKING FOR 915MHz RECEPTION

If the outdoor temperature and humidity data are not being received within two minutes after set up (or outdoor display always shows "- -.-" 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 915 MHz-signal frequencies 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 reset all units (see **"Set up"** above) otherwise transmission problems may occur.
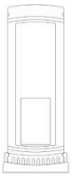
The transmission range is around 330 feet (100 meters) from the thermo-hygro transmitter to the weather station (in open space). However, this

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 **"Set 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 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

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.

Mount in 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.
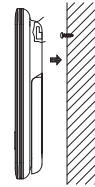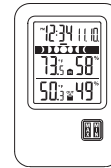
To wall mount:
1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the transmitter onto the bracket.

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 : 14.2°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 OF.L; 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 260 feet
(79.2 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: 3.22" x 0.78" x 5"
81.8 x 20 x 127.1mm
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.

Contact info for warranty or technical support:
La Crosse Technology
2817 Losey Blvd. S.
La Crosse, WI 54601

Product Info and Support:
www.lacrossetechnology.com/9066

Product Registration:
www.lacrossetechnology.com/support/register.php
Contact Support: 1-608-782-1610

FCC ID: OMO-TX45U-TH-IT (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.