WS-9049 WEATHER STATION
Instruction Manual

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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 seconds!) of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!**

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3. Instruction manual

FEATURES:

The Weather Station

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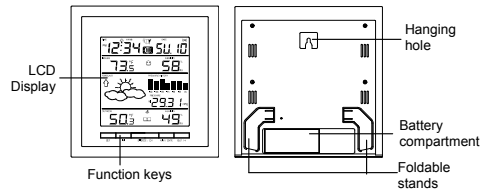
- WWVB Radio controlled time with manual set option
- Time reception ON/OFF (user selectable)
- 12/24 hour time display
- Time zone option ±12 hours
- Daylight saving time (DST On/Off)

- Displays Weekday with Date
- Alarm with snooze function
- Displays 12 Moon phases throughout the year
- Weather forecasting with weather tendency indicator
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- Temperature display in °F/°C
- Indoor & outdoor temp w\ MIN/MAX and time of measurement
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- Relative air pressure hPa/ inHg with adjustable reference value
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- Relative air pressure history for the past 24 hours (electronic barometer with barometric pressure trend)
- LCD contrast selectable
- Can receive up to 3 outdoor transmitters
- Wireless transmission at 915 MHz
- Signal reception intervals at 4 seconds
- Low battery indicator
- Table standing or wall mounting

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Thermo-Hygro Transmitter
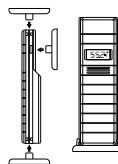
- Remote transmission of outdoor temperature and humidity to weather station by 915 MHz signals
- Alternate display of temperature and humidity display
- Water-resistant casing
- Wall mounting case. (Mount in a sheltered place. Avoid direct rain and sunshine)

SETTING UP

WHEN ONE TRANSMITTER IS USED

1. First, insert the batteries in the transmitter (see "**How to install and replace batteries in the Thermo-hygro outdoor transmitter**" on page 11).

2. Within 2 minutes of powering up the transmitter, insert the batteries

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in the Weather Station (see "**How to install and replace batteries in the Weather Station**" on pages 11-12). Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound. Next the indoor temperature/humidity is displayed and the time reads 12:00. 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 you 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, remove the batteries from both units, and then restart the process from step 1.

4. The distance between the Weather Station and the transmitter should not be more than 330 feet to ensure sufficient 915 MHz transmission. (See notes on "**Positioning" and "915 MHz Reception**").

   Note:

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When changing batteries, ensure that they 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.
Please note that initial set up of the weather station should be with the sensor(s) within 5 feet of the display for 15 minutes. Once connection is established and locked in for 15 minutes the sensors can be moved, but not more than 330 ft (open air) from the display.

WHEN MORE THAN ONE TRANSMITTER IS USED

1. User shall remove all the batteries from the Weather Station and transmitters, and wait 60 seconds.

2. Insert the batteries in the first transmitter.

3. Within 2 minutes of powering up the first transmitter, insert the batteries in the Weather Station. Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound. Next the indoor temperature/humidity is displayed and the time reads 12:00. If this information is not displayed on the LCD

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after 60 seconds, remove the batteries from both units and wait for at least 60 seconds before reinserting them.

4. The outdoor temperature and humidity data from the first transmitter (channel 1) and the signal reception icon ☇ should be displayed on the Weather Station. If this does not happen after 2 minutes, remove the batteries from both units, and then restart the process from step 1.

5. Insert the batteries in the second transmitter as soon as the signal reception icon ☇ and outdoor data are displayed on the Weather Station. Then within 2 minutes, the channel 2 outdoor data from the second transmitter and the "channel 2" icon should be displayed on the Weather Station. If this does not happen after 2 minutes, remove the batteries from both units, and then restart the process from step 1.

   Note : You must insert the batteries into the second transmitter within 45 seconds after the Weather Station displays the information of the first transmitter.

6. Insert the batteries in the third transmitter as soon as the "channel 2" icon and outdoor data are displayed on the Weather Station. Then within 2 minutes, the channel 3 outdoor data from the third transmitter will be displayed and the channel icon will shift back to "1" once the third transmitter is successfully received. If this does not happen after 2 minutes, remove the batteries from both units, and then restart the process from step 1.

   Note: You must insert the batteries into the third transmitter within 45 seconds after the Weather Station displays the information of the first transmitter - or immediately after reception of the second transmitter is finished.

7. The distance between the Weather Station and the transmitter should not be more than 330 feet *to ens*ure sufficient 915 MHz transmission. (See notes on "**Positioning" and "915 MHz Reception**").

IMPORTANT:
Transmission problems will arise if the setup for additional sensors is not followed as described above. Should transmission problems occur, it is

necessary to remove the batteries from all units and start again the set-up from step 1.

Note:
- If the signal reception is not successful on the first frequency of 915MHz for 45 seconds, the frequency is changed to 920MHz and the learning is tried for another 45 seconds. If it is still not successful the reception is tried for 45 seconds on 910MHz. This will also be done during re-synchronization.
- When the weather station is receiving the WWVB time signal, the outdoor transmitter data signal will temporarily not be received by the weather station. During this short period of time, the outdoor readings shown on the weather station will not be renewed until the WWVB time signal is successfully received.

TO INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO TRANSMITTER
The Thermo-Hygro Transmitter uses 2 x AA, IEC, LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below:
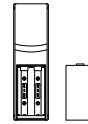1. Remove the cover.
2. Insert the batteries, observing the correct polarity (see marking).

3. Replace the battery cover.

Note:
When changing batteries in any of the units, all units need to be reset by following the setup 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 C, IEC LR14 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.
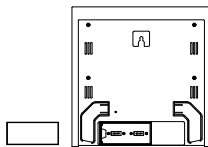
BATTERY CHANGE:
It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of these units.

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

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RESET
The Weather Station and the Thermo-hygro transmitter need to be reset when one of the following conditions occur:

- Unsuccessful 915 MHz signal reception.
- Malfunction on the units.
- Battery replacement.

To perform a reset, remove all batteries from the units. Wait for at least 1 minute before powering up the Weather station again. Proceed from step 1 in **"Setting Up"**.

ABOUT WWVB RADIO CONTROLLED TIME

The NIST (National Institute of Standards and Technology—Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado, and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the weather projection station. However, due to the nature of the Earth's Ionosphere, reception is very

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limited during daylight hours. The wireless weather station will search for a signal every night when reception is best.

The WWVB radio station receives the time data from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measuring every second, of every day, to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium-133 atom in a vacuum. For more detail, visit http://www.boulder.nist.gov/timefreq.htm. To listen to the NIST time, call (303)499-7111. This number will connect you to an automated time, announced at the top of the minute in "Coordinated Universal Time", which is also known as Greenwich Mean Time (GMT). This time does not follow Daylight Saving Time changes. After the top of the minute, a tone will sound for every second. It is possible that your wireless weather station may not be exactly on the second due to the variance in the quartz. However, the clock will adjust the quartz timing over the course of several days to be very accurate; under 0.10 seconds per day.

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FUNCTION KEYS:
Weather Station

The Weather Station has 5 function keys:

SET key   IN key   SNOOZE/CH key   ALM/DATE key   OUT/+ key
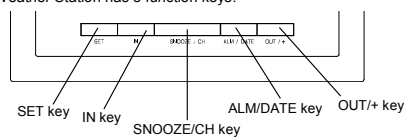
SET key
- Press and hold the key to enter manual set modes: LCD contrast, time zone, DST ON/OFF, time reception ON/OFF, 12/24 hour display, manual time setting, calendar, temperature °F/°C, pressure hPa/inHg, relative pressure value, and weather icon sensitivity setting
- Reset all MIN/MAX records

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- Stop the alarm during alarm ringing
- Stop snooze mode

ALM/DATE key
- Press and hold key for 3 seconds to enter the alarm set mode
- Activate/de-activate the alarm time
- Silence the alarm
- Cancel snooze mode
- Display date

IN key
- Press to toggle between MAX/MIN and current indoor temperature/humidity data
- Press to set the alarm hour (inside alarm setting mode)
- Decrease relative pressure value (within manual set mode)
- Silence the alarm
- Cancel snooze mode

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OUT/+ key
- Press briefly to toggle between MAX/MIN and current outdoor temperature/humidity data
- Increase, change, toggle all values in manual set mode
- Press to set the alarm minute (inside alarm setting mode)
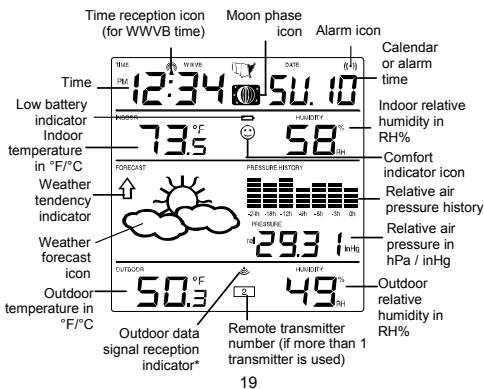- Silence the alarm
- Cancel snooze mode

SNOOZE/CH key
- Activate snooze function
- Exit the manual and alarm set modes
- Switch between display of channels (if more than 1 transmitter is used)

LCD SCREEN
The LCD screen is split into 4 sections displaying the information for time/calendar/alarm/moon phase, indoor data, weather forecast and outdoor data.

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Time reception icon (for WWVB time) Moon phase icon Alarm icon

Time
Low battery indicator
Indoor temperature in °F/°C
Weather tendency indicator
Weather forecast icon
Outdoor temperature in °F/°C
Outdoor data signal reception indicator*
Remote transmitter number (if more than 1 transmitter is used)

Calendar or alarm time
Indoor relative humidity in RH%
Comfort indicator icon
Relative air pressure history
Relative air pressure in hPa / inHg
Outdoor relative humidity in RH%

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* 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. You can then see whether the last reception was successful (icon on) or not (icon off). A short blinking of the icon indicates that signal reception is currently taking place.

MANUAL SETTINGS:
The following manual settings can be changed when pressing the SET key:
- LCD contrast setting
- Time zone setting
- DST ON/OFF setting
- Time reception ON/OFF setting
- 12/24-hour format setting
- Manual time setting
- Calendar setting
- °F/°C temperature setting
- Air pressure setting (hPa / inHg)
- Relative air pressure setting
- Weather forecasting icon sensitivity setting

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Note: SET mode is entered by pressing and holding the SET key for 3 seconds. If you do not press any keys for 15 seconds while in SET mode, the Weather Station switches out of SET mode.
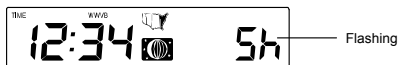
LCD CONTRAST SETTING:

Last digit flashing — `lc d4 [] 5U. 1.`

The LCD contrast has 8 levels, from 0 to 7 (Default setting is 4):
1. Press and hold the SET key until the digit starts flashing.
2. Use the OUT/+ key to view all levels of contrast.
3. Select the desired LCD contrast. Confirm with the SET key and enter the **Time Zone setting**.

TIME ZONE SETTING:

`12:34 [] 5h` — Flashing

The default time zone of the Weather Station is "-5h". U.S. time zones are negative numbers: –5h (EST), -6h (CST), -7h (MST) and –8h (PST).To set a different time zone:
1. The current time zone value starts flashing.
2. Use the OUT/+ key to set the time zone. The range runs from 0 to -12 and then runs from +12 back to 0 in consecutive 1-hour intervals.
3. Confirm with the SET key and enter the **Daylight saving time ON/OFF**.

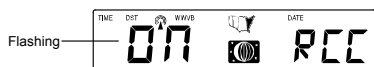**DAYLIGHT SAVING TIME ON/OFF SETTING (DST ON/OFF)**

Flashing — `On [] DSt`

The daylight time saving (DST) function can be set ON/OFF. Default setting is "ON":
1. "ON" will flash on the LCD and "DSt" will display.
2. Use the OUT/+ key to turn the daylight saving time function ON or OFF.

3. Confirm with the SET key and enter the **Time reception ON/OFF setting**.

TIME RECEPTION ON/OFF SETTING:

Flashing — `On [] RCC`

In areas where reception of the WWVB time is not possible, the WWVB time reception function can be turn OFF. The clock will then work as a normal Quartz clock. (Default setting is ON).
4. "ON" will start flashing on the LCD and "RCC" will display.
5. Use the OUT/+ key to turn OFF the time reception function.
6. Confirm with the SET key and enter the 12/24-hour format setting.

Note:
If the Time Reception function is turned OFF, the clock will not attempt reception of the WWVB time. The time reception icon and the "WWVB" icon will not be displayed on the LCD. Time Reception must be set to "ON" for the WVVB atomic time to function.

12/24-HOUR FORMAT SETTING:

`12:34 [] 12h` — Flashing

The hour display can be selected to show hours in 12-hour or 24-hour settings. (Default 12-Hour)
1. Use the OUT/+ key to toggle between "12H" or "24H".
2. Confirm with the SET key and enter the **Manual time setting**.

MANUAL TIME SETTING:
If Weather Station cannot detect the WWVB-signal due to disturbances, transmission distance, etc., the time can be set manually. The clock will then work as a normal Quartz clock.

Hour flashing — `12:34 [] 5U. 1.`

Minutes flashing

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

Note: If the WWVB reception function is set to "ON", the unit will still try to receive the WWVB time signal between midnight and 6:00 am every day, even if the time was set manually. When it does receive the signal, it will change the manually set time into the received time. During reception attempts, the WWVB tower icon will flash. If reception has been unsuccessful, then the WWVB tower icon will not appear but reception will still be attempted the following hour.

CALENDAR SETTING:

Year

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Month and date
(12hr time format)
Date and month
(24hr time format)

Note: When set to 24-hour time, the calendar setting mode will display the date to the left of the month.

The date default of the Weather station is 1. 1. 2006. Once the radio-controlled time signals are received, the date is automatically updated. If the signals are not received, the date can also be set manually.
1. The year starts flashing.
2. Use the OUT/+ key to set the year (between year 2003-2029).
3. Press the SET key again to confirm and to enter the month setting. The month starts flashing.
4. Use the OUT/+ 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 OUT/+ key to set the date.
7. Confirm all calendar settings with the SET key and enter the Temperature unit setting.

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Note: The Day of the Week will set automatically when the year, month and date are set.

°C/°F TEMPERATURE SETTING:

Flashing —
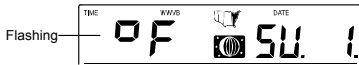
The temperature display can be selected to show temperature data in °C or °F (Default °F).
1. Use the OUT/+ key to toggle between "°C" and "°F".
2. Confirm with the SET key and enter the **Air pressure unit setting.**

AIR PRESSURE UNIT SETTING (hPa / inHg):
The pressure display can be selected to show relative air pressure in hPa or inHg (default is "inHg").

Flashing —

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1. Use the OUT/+ key to toggle between "hPa" or "inHg" unit
2. Confirm with the SET key and enter the **Relative air pressure value setting**.
Note:
Units of weather icon sensitivity and air pressure history are not affected. They are always expressed in hPa.

RELATIVE AIR PRESSURE VALUE SETTING
The default relative pressure value is 29.92 inHg (1013 hPa). This can be manually set to another value within the range of 28.35 – 30.72 inHg (960 – 1040 hPa) for a better reference.
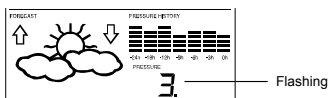

Flashing

1. The current relative pressure value will start flashing
2. Use the OUT/+ key to increment and IN key to decrement the value. Holding the key allows the value to advance faster.

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3. Confirm with the SET key and enter the Weather forecast icon sensitivity setting.

WEATHER FORECASTING ICON SENSITIVITY SETTING:

For locations with rapid changes of weather conditions, the weather icons sensitivity can be set to a different level for faster display of weather conditions.

1. The current sensitivity value will start flashing.
2. Use the OUT/+ key to set the weather sensitivity level. There are 3 levels of sensitivity: 2, 3 and 4. The value corresponds to the change of air pressure in hPa before the weather icon will switch to another state. Level 2 is the most sensitive setting (coastline); level 4 is the slowest (desert) recording setting (default setting is "3").
3. Confirm with the SET key and exit the **Manual settings**.

TO EXIT THE MANUAL SETTING MODE

To exit the manual setting mode anytime during the manual setting, press the SNOOZE/CH key or wait for automatic timeout. The mode will return to normal time display.

ALARM SETTING:

The alarm time can be set when pressing the ALM/DATE key.

1. Press and hold the ALM/DATE key to enter the alarm set mode. The alarm digits flash.
2. Use the IN key to set the alarm hour.
3. Use the OUT/+ key to set the alarm minute.
4. Confirm with SNOOZE/CH key and exit the **Alarm setting**. The icon ((●)) will be displayed along with the set alarm time.

Note: If the calendar is displayed in the Weather station, the alarm is NOT active.

To view and activate the alarm, press the ALM/DATE key. The alarm icon ((●)) and the alarm time will be displayed, indicating that the alarm setting is activated.

The maximum alarm ring duration is 2 minutes.

SNOOZE SETTING AND STOPPING THE ALARM:

The 10 minute snooze function can be set when the alarm is ringing by pressing the SNOOZE/CH key.

When the alarm is snoozing, the alarm icon ((●)) will remain flashing indicating that the alarm is active but is in Snooze mode. To stop the snooze function when it is in snooze period, press any key except the SNOOZE/CH key.

To stop the alarm, press any key (except for SNOOZE/CH).
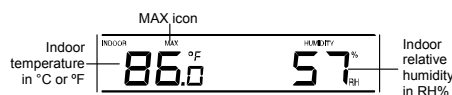
MOON PHASES SYMBOL

The Moon icon of the Weather station will also display all 12 Moon phases throughout the year according to the set calendar.
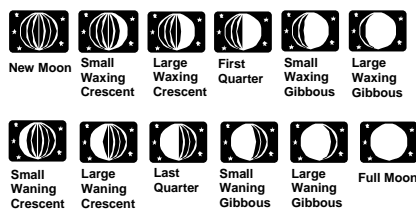
INDOOR RELATIVE HUMIDITY AND INDOOR TEMPERATURE:

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

THE COMFORT LEVEL INDICATOR:

Comfortable : A happy face icon "☺" indicates a temperature between 68°F and 78.6°F (20°C and 25.9°C) and relative humidity reading between 45% and 65%.

Uncomfortable : A sad face icon "☹" indicates any value outside the comfortable range.

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TOGGLING AND RESETTING THE INDOOR READINGS:

1. To toggle between the current indoor and the MAX/MIN indoor temperature, and the humidity data and the times (for temperature data only) they were recorded, press the IN key:
    -   Once to show the MAX indoor temperature and humidity data with the recorded time and date.
    -   Twice to show the MIN indoor temperature and humidity data with the recorded time and date.
    -   Three times to return to the current displayed values

2. Once the MIN or MAX data is displayed, press and hold the SET key for 3 seconds to reset the respective MIN or MAX record to current temperature and humidity data, and current time, date display.
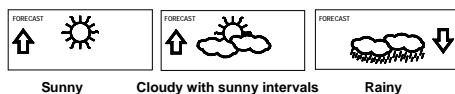
Note: The MIN or MAX data needs to be reset individually.

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WEATHER FORECAST AND WEATHER TENDENCY:

WEATHER FORECASTING ICONS:

Weather icons in the third section of LCD can be displayed in any of the following combinations:

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. 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 forecast the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For

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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 setup, readings for weather forecasts should be disregarded for the next 48-60 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. 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 constant 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 48-60 hours. By doing this, the Weather Station will not mistake the new

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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 are 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. When the 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.
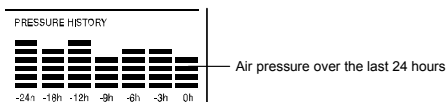
Note:
Once the weather tendency indicator has registered a change in air pressure, it will remain permanently displayed on the LCD.

AIR PRESSURE HISTORY (ELECTRONIC BAROMETER WITH BAROMETRIC PRESSURE TREND)

The third section of the LCD also shows the relative air pressure value and the air pressure history.

Air pressure over the last 24 hours

The bar chart indicates the air pressure history trend over the last 24 hours in 7 steps, 0h, -3h, -6h, -9h, -12h, -18h, and -24h. The "0h" represents the current full hour air pressure recording. The columns represent the "hPa" (0, ±2, ±4, ±6) at specific time. The "0" in the middle of this scale is equal to the current pressure and each change (±2, ±4, ±6) represents how high or low in "hPa" the past pressure was compared to the current pressure.

If the bars are rising, it means that the weather is getting better due to the increase of air pressure. If the bars go down, it means the air pressure

has dropped and the weather is expected to get worse from the present time "0h".

Note: For accurate barometric pressure trends, the Weather Station should operate at the same altitude. For example, it should not be moved from the ground to the second floor of the house. Should the unit be moved to a new location, discard readings for the next 48-60 hours.

OUTDOOR TEMPERATURE AND HUMIDITY DATA

The fourth LCD section shows the outdoor temperature and humidity, the reception indicator, the transmitter identification number and the MIN/MAX outdoor data.

Outdoor transmitter identification number

MIN icon

Outdoor temperature in °C/ °F

Outdoor relative humidity in RH%
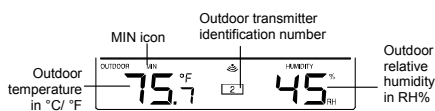
TOGGLING AND RESETTING THE OUTDOOR DATA

1. To toggle between the current outdoor and the MAX/MIN outdoor temperature and humidity data and the times (for temperature data only) they were recorded press the OUT/+ key:
    - Once to show the MAX outdoor temperature and humidity data with the recorded time and date.
    - Twice to show the MIN outdoor temperature and humidity data with the recorded time and date.
    - Three times to return to the current displayed values.
2. Once the MIN or MAX data is displayed, press and hold the SET key for 3 seconds to reset the respective MIN or MAX record to current temperature and humidity data, and current time, date display.

Note: The MIN or MAX data needs to be reset individually.

TO VIEW THE MIN/MAX DATA FROM DIFFERENT TRANSMITTERS

When more than 1 transmitter used:

1. To toggle between transmitters, press the SNOOZE/CH key:

- Once to show transmitter 2
- Twice to show transmitter 3
- Three times to return to transmitter 1

2. Use OUT/+ key to view the MIN/MAX temperature and humidity data for the selected transmitter.
3. To reset the minimum and maximum temperature and humidity data, and the times at which they were recorded, press the SET key continuously for about 3 seconds. This will reset the MIN/MAX data recorded to the current time, date, temperature and humidity. The current time taken is the normal displayed time and does not regard the time zone set for the unit.

LOW BATTERY INDICATOR

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

ABOUT THE OUTDOOR TRANSMITTER

The range of the Thermo-hygro transmitter may be affected by the temperature. At cold temperatures, the transmitting distance may be decreased. Please keep this in mind when positioning the transmitters.

Battery power may be reduced for the Thermo-hygro transmitter at cold temperatures.

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 to 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. 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, reset all units (see **"Setting up"** above), or transmission problems may occur.

The transmission range is around 330 feet 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 THERMO/HYGRO TRANSMITTER:
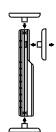
The remote thermo/hygro transmitter can be placed onto any flat surface or wall mounted using the bracket which doubles as a stand or wall mount base.

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.
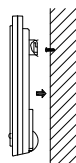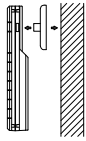
TO WALL MOUNT:
1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 0.2" (5mm).
2. Place the weather station onto the screw, using the hanging hole on the backside. Gently pull the weather station down to lock the screw into place.

FOLDOUT TABLE STANDS:

The foldout table stands legs are located on the backside. Simply unfold the stands on the back. Once the foldout table stands are extended, place the weather station in an appropriate location.

TO WALL MOUNT:
1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the remote temperature transmitter onto the bracket.

Note: The mounting surface can affect the transmission range. If, for instance, the unit is attached to a piece of metal, it may then either decrease or increase the transmitting range.

For this reason, we recommend not to place the unit on any metal surfaces or in any position where a large metal or highly polished surface is in the immediate vicinity (garage doors, double glazing, etc.). Before securing in place, please ensure that the Temperature Station can receive the 915MHz signal from the temperature transmitter at the positions that you wish to place them.

CARE AND MAINTENANCE:

- Extreme temperatures, vibrations and shocks should be avoided as these may cause damage to the unit 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. Furthermore, fix all parts in place where the units are adequately protected against moisture and rain.
- 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 unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit 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:

Indoor Temp   : 14.2°F to 139.8°F with 0.2°F resolution
-9.9°C to +59.9°C with 0.1°C resolution
("OF.L" displayed if outside this range)

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

Indoor Humidity   : 1% to 99% with 1% resolution
(Displays "- -" If temp is OL.F; display "- -" if < 1% and "99%" if > 99%)

Outdoor Humidity   : 1% to 99% with 1% resolution
(Displays "- -" if outside temp is OF.L; 1% if < 1% and 99% if > 99%)

Interior data checking intervals
Indoor Temperature   : Every 15 seconds
Humidity   : Every 20 seconds
Air pressure checking interval : Every 15 seconds

Outdoor temperature and humidity data checking interval:
Every 4 seconds (or every 15 minutes if data are lost and displays "--.-")
Transmission range   : up to 330 feet (open space)

Power consumption: (alkaline batteries recommended)
Weather station   : 2 x C, IEC LR14, 1.5V
Thermo-hygro transmitter   : 2 x AA, IEC LR6, 1.5V
Battery life   : up to 24 months

Dimensions (L x W x H):
Weather station: 7.20" x 1.49" x 7.36" / 183 x 38 x 187 mm
External transmitter: 1.50" x 0.83" x 5.05" /38.2mm x 21.2mm x 128.3mm

WARRANTY

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 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, Ltd
2817 Losey Blvd. S
La Crosse, WI 54601
Phone: 608.782.1610
Fax: 608.796.1020

www.lacrossetechnology.com/support (warranty work, prod registration)

sales@lacrossetechnology.com (information on other products)

www.lacrossetechnology.com

Questions? Help? Please visit: **www.lacrossetechnology.com/9049**

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