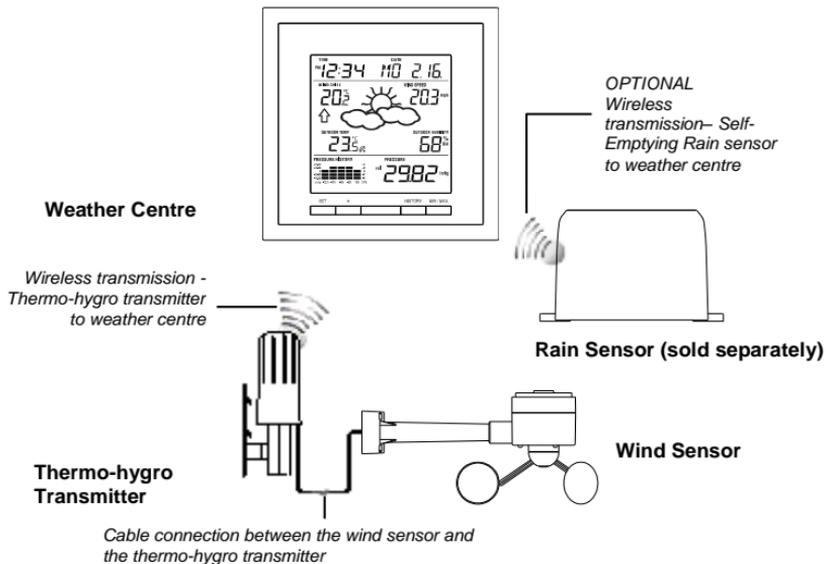
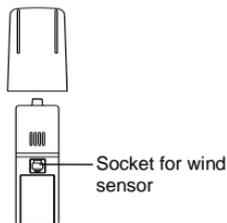


# QUICK SET UP MANUAL – PROFESSIONAL WEATHER CENTRE

## INITIAL SETUP:



**Note:** When putting the Weather Centre into operation, it is important to have them in close proximity (e.g. on a table) while completing wiring and set-up of the system. This step is important to allow testing of all components for correct function before placing and mounting them at their final destinations (See **Positioning** below).

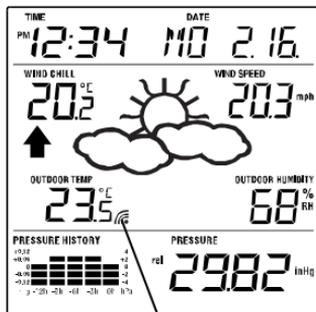


1. Unwind the cables of the Wind sensor. Connect the Wind sensor to the Thermo-hygro transmitter by plugging the connector head into the socket of the Thermo-hygro sensor.
2. First insert the batteries into the Thermo-hygro sensor and optional rain sensor (purchased separately) (See **How to install and replace the batteries into the Thermo-hygro sensor** and **How to install and replace the batteries into the rain sensor** below).
3. Then insert the batteries into the Weather Centre (See **How to install and replace the batteries into the Weather Centre** below). Once the batteries are installed, all segments of the LCD will light up. It will then display the time as 12:00, the date as 1.1.09, the weather icons, and air pressure value. "- - -" will be shown for outdoor data.
4. The Weather Centre will start receiving data from the transmitter. The transmission reception icon will be blinking to indicate that the centre is trying to get the thermo-hygro transmitter data. The outdoor temperature, humidity and wind data should then be displayed on the Weather Centre. If this does not happen after 135 seconds, the batteries will need to be removed from all units. You will have to start again from step 2.
5. The transmitter reception icon is now blinking again to indicate that the centre is trying to get the rain sensor data. It will stop blinking once the rain sensor has been detected. If this does not happen after 135 seconds, you will need to start again from step 2.
6. You may need to check the cable for correct connection and all the components for correct function by manually turning the wind-gauge by moving the wind-vane; tilting the rain sensor to hear the impact of the internal moving seesaw, etc. (see **Positioning** below).
7. Time and date must be manually set.
8. After the Weather Centre has been checked for correct function with regard to the above points and found fit, the initial set up of the weather centre system is finished and the mounting of the system components can take place. It must be ensured

however that all components work properly together at their chosen mounting or standing locations.

**Note:** After batteries are installed in the transmitter, install the batteries in the weather centre to receive the signal from the transmitters as soon as possible. If the weather centre is powered more than 5 hours after the transmitter is powered, the weather centre will never receive the signal successfully from the transmitters. In this case, you will need to reinstall the batteries for all the transmitters to redo the setup procedure.

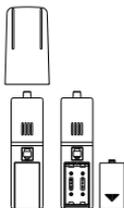
After the batteries are installed, there will be synchronization between weather centre and the transmitters. At this time, the signal reception icon  will be blinking. When the signal is successfully received by the Weather Centre, the  icon will be switched on. (If it is not successful, the  icon will not be shown in LCD) This allows you to see whether the last reception was successful (icon on) or not (icon off). Short blinking of the icon shows that a reception is in progress.



Transmitter signal reception icon

If the signal reception is not successful on the first frequency (921MHz) for 45 seconds, the frequency is changed to 926MHz and the learning is tried another 45 seconds. If still not successful, the reception is tried for 45 seconds on 916MHz. This will also be done for re-synchronization.

## HOW TO INSTALL AND REPLACE THE BATTERIES INTO THE THERMO-HYGRO TRANSMITTER



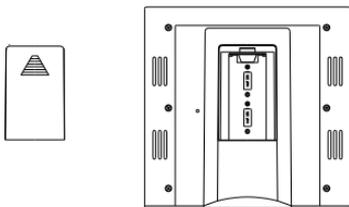
The outdoor Thermo-hygro transmitter works with 2 x AA IEC LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below:

1. Uninstall the rain cover of the transmitter.
2. Remove the battery compartment cover.
3. Insert the batteries, observing the correct polarity (see the marking in the battery compartment).
4. Replace the battery cover and the rain cover onto the unit.

**Note:** When changing batteries in any of the units, all units need to be reset by following the setup procedure. This is because the thermo-hygro sensor will assign a random security code at start-up and this code must be received and stored by the weather centre in the first several minutes of power being supplied to it.

## HOW TO INSTALL AND REPLACE THE BATTERIES IN THE WEATHER CENTRE

The Weather Centre works with 2 x C, IEC LR14, 1.5V batteries. When the batteries need to be replaced, the low battery symbol will appear on the LCD.



To install or replace the batteries, please follow the steps below:

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

## HOW TO INSTALL AND REPLACE BATTERIES INTO THE RAIN SENSOR (OPTIONAL- SOLD SEPERATELY)

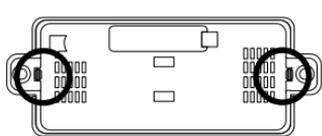


Figure 1

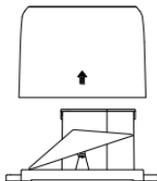


Figure 2

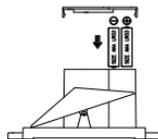


Figure 3

To install and replace the batteries, please follow the steps below:

1. Unlock the main cover from the rain sensor base and remove the cover.
2. Remove the battery cover at the top of the rain sensor.
3. Insert 2 x AAA IEC LR3 1.5V batteries into the battery compartment, observing the correct polarity.
4. Replace the battery cover and the main cover on the unit.

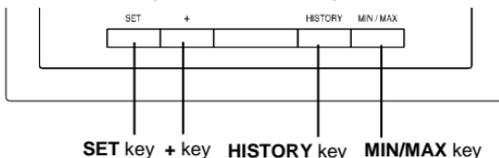
**Note:** When changing batteries in any of the units, all units need to be reset by following the setting up procedure. This is because the thermo-hygro sensor and rain sensor (optional) assign a random security code at start-up and this code must be received and stored by the Weather Centre in the first 135 seconds of power being supplied to it.

**Note:** The stored history records will not be retained after battery change or whenever battery is removed from the Weather Centre.

### FUNCTION KEYS:

#### Weather Centre:

The Weather Centre has 4 easy-to-use function keys.



### **SET key**

- Press and hold for 3 seconds to enter manual setting modes: LCD contrast, Manual time setting, 12/24 hour time display, Calendar setting, °C/ °F temperature unit, Wind speed unit, Rainfall unit, Pressure unit, Relative pressure reference setting, Weather tendency threshold setting
- Press to toggle between the display of Mode 1 or Mode 2:  
Mode 1: "Wind speed + outdoor temp + rel. pressure"  
Mode 2: "Gust + Dew Point temp + rainfall data (only if there is a rain sensor- optional)"  
**Note:** (Mode 2 displayed will be shown for 30 seconds. Then it will return to normal display.)
- Press to activate the reset mode when MAX or MIN record is shown

### **+ key**

- In display Mode 1, press to toggle the date, weekday, + date, Indoor temp, or sec
- In display Mode 2, press to toggle the Relative Pressure, 24 hour rainfall and Total rainfall (if there is a rain sensor- optional).
- Press to adjust (increase) the level of different settings
- Press to confirm to reset the MIN/MAX record

### **HISTORY key**

- Press to display the weather data history records or exit manual setting mode

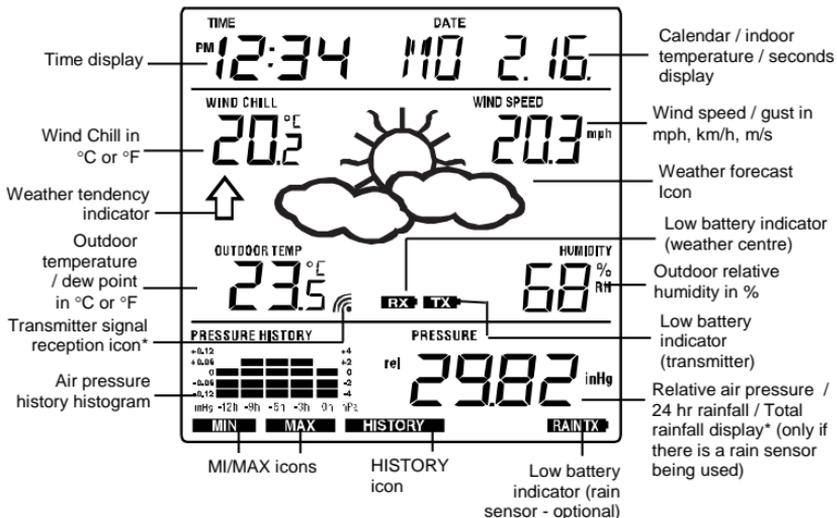
### **MIN/MAX key**

- Press to display MIN/MAX records of various weather data or adjust (decrease) the level of different settings

## LCD SCREEN

The LCD screen is split into 3 sections displaying the following information:

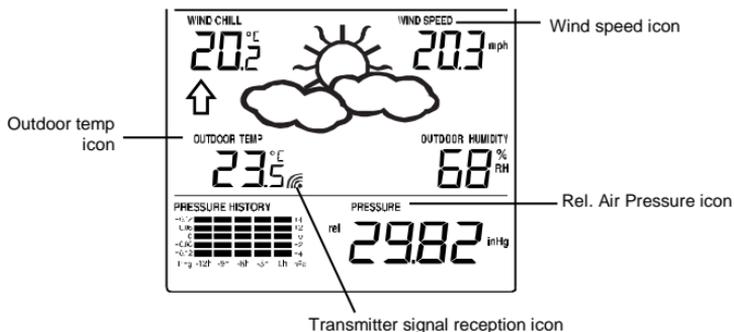
1. Time and date/ indoor temp/ second
2. Wind data, outdoor temperature and humidity, dew point, weather forecast icon, tendency indicator and battery indicators.
3. Air pressure history, relative air pressure, rainfall data (optional)



\*When the Weather Centre successfully receives the transmission signals, the  icon will be switched on. (If not successful, the  icon will not be shown on the LCD). User can therefore easily see whether the last reception was successful ("ON"  icon) or not ("OFF"  icon). On the other hand, the short blinking of the  icon shows that a reception is being done at that time.

In normal display user may press the SET key shortly to toggle between Mode1 and Mode 2 display:

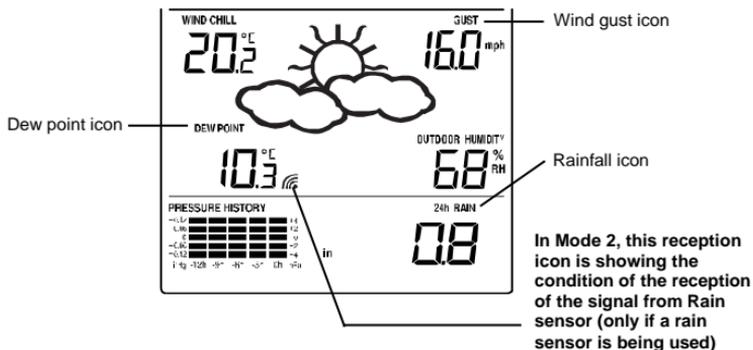
**Mode 1:** Wind speed, outdoor temperature and relative air pressure are shown.



**In Mode 1, this reception icon is showing the condition of the reception of the signal from Thermo-hygro transmitter**

**Mode 2:** Wind gust, dew point, and rainfall (optional) readings are shown.

**Note:** To view the rainfall data, press the + key after entering Mode 2 display.



## **POSITIONING:**

Using 915MHz wireless transmission gives users little restriction on placement because all units can be positioned virtually anywhere within a 330 ft / 100 meters radius of the base station. Please ensure that the cable included in this set meets your distance requirements (see accessories in the main user manual for adding extension cables).

**Important:** Ensure all signals can be received and/or all cable distances meet with your requirements at the point of fixing particularly before you start drilling any mounting holes.

## **Wind sensor**

Secure the main unit to the shaft of the mast holder using the single screw provided with the front of the sensor (marked E) facing in the East-West direction otherwise wind direction will not be accurate. Now fix the entire unit to a suitable mast using the U-bolt, washers and nuts found in this set.

**Note:** For best results mount the wind sensor onto a mast to allow the wind to freely travel from all directions to enable an accurate reading (ideal mast size should be from  $\varnothing$   $\frac{5}{8}$ " to 1 $\frac{1}{4}$ "). Ensure that the cable of the wind sensor meets your distance requirements

## **Thermo-hygro Sensor**

To wall mount the thermo-hygro sensor, fix the wall holder onto the desired wall (2 screws are supplied), plug the sensor firmly into the wall holder and then carefully replace the rain cover back over the thermo-hygro sensor.

**Note:** After mounting the units, should the weather data not be received, user may need to remove the batteries from all units and redo the set-up procedures after about 5 minutes.

## **Rain sensor (optional)**

The rain sensor should be mounted horizontally about 2-3ft off from the ground (or higher) in an open area away from trees or other coverings to allow rain to fall naturally for an accurate reading.

**Note:** For best results ensure the base is horizontal to allow maximum drainage of any collected rain

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