

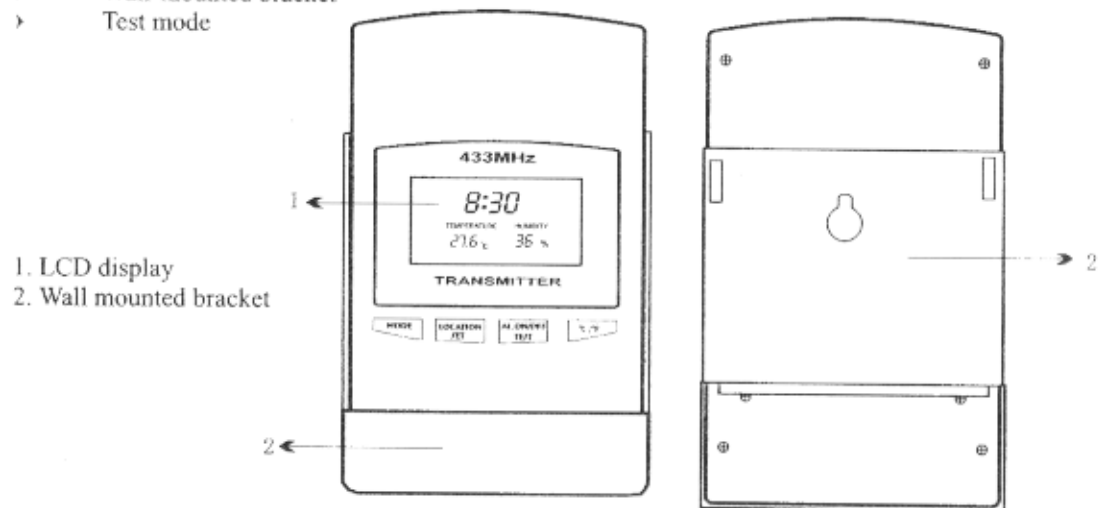
SPER SCIENTIFIC Wireless Thermo / Hygrometer 800029

Introduction

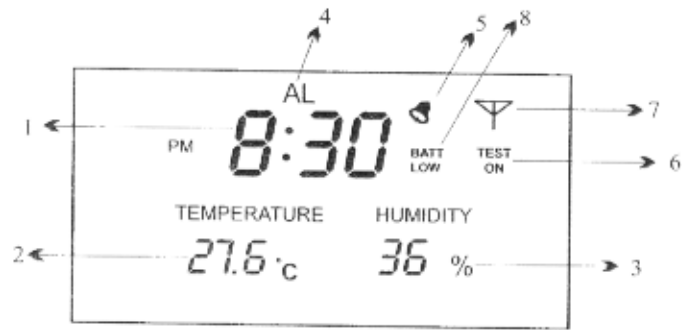
This is an ideal product for checking in-out doors temperature and humidity simultaneously. It consists of a transmitter and a weather station.

Features of the Transmitter

- › Transmits outdoor temperature and humidity data at 433 MHz to weather station
- › Measure outdoor temperature & humidity automatically
- › LCD display shows time, temperature and humidity
- › Temperature in Celsius or Fahrenheit
- › Wall-mounted bracket
- › Test mode



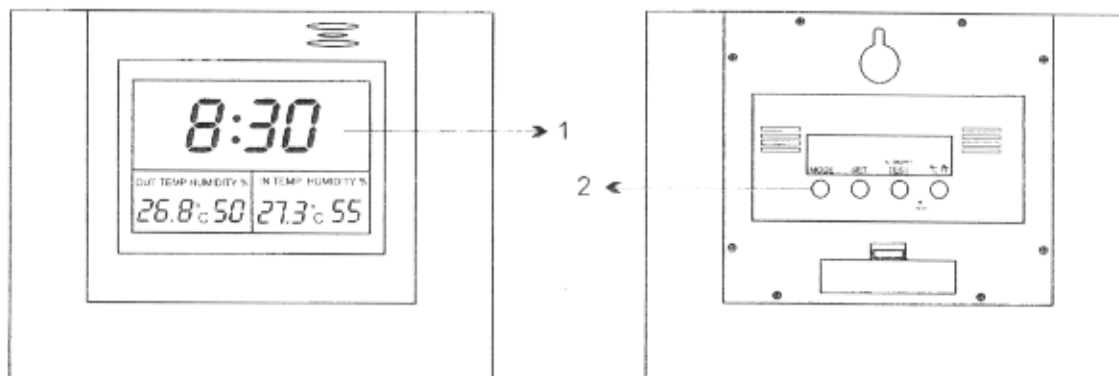
LCD display of the Transmitter



1. Time
2. Temperature
3. Humidity
4. Alarm mode
5. Alarm is on
6. Test mode is switched on
7. Flashing when signals are transmitting.
8. Low battery

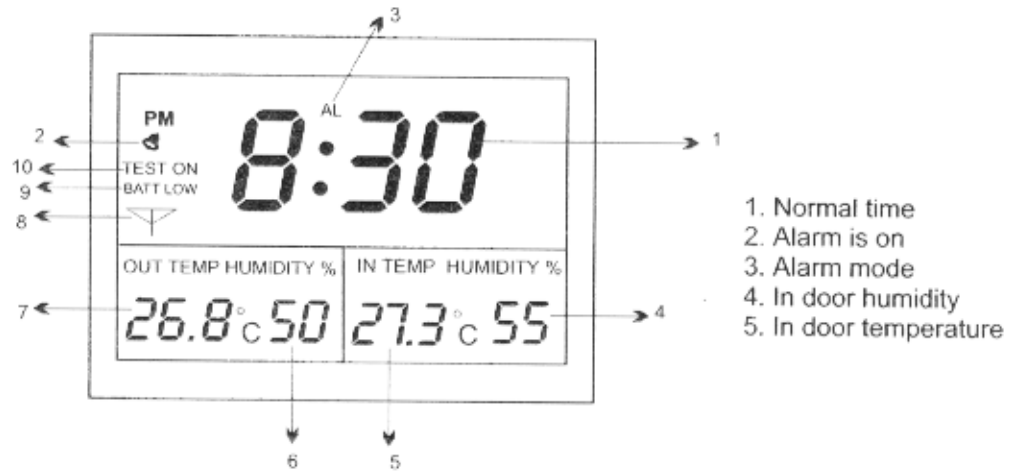
Feature of the Weather Station

- > Indoor temperature operating range from 0°C to 50°C with 0.1 resolution.
- > Outdoor temperature operating range from -20°C to 60°C with 0.1 resolution
- > Temperature in Celsius or Fahrenheit.
- > Measure the indoor temperature & humidity automatically
- > LCD display shows time, indoor/outdoor temperature and humidity
- > Test mode



1. LCD display
2. Set keys

Weather station LCD display



1. Normal time
2. Alarm is on
3. Alarm mode
4. In door humidity
5. In door temperature
6. Humidity measured by transmitter
7. Temperature measured by transmitter
8. Flashing antenna means receiving signals from transmitter
9. The transmitter is in low battery
- 10 Test mode is switched on

Getting started:

1. Remove both units from the packaging.
2. Insert 2 new AAA size batteries in the transmitter and check the display. Default time and temperature & humidity data should be displayed after few seconds.
3. Insert 3 new AA size batteries in the weather station and check the display. Default time and temperature & humidity data should be displayed after few seconds.
4. Follow the instructions on page 8 , set both units to current time.
5. Follow the instructions on page 9, switch both units to test mode.
6. Place both units at your desired location. Ensure the antenna icon of the weather station flashing at your desired location. If the antenna icon is not flashing, the weather station may encounter reception problem. Try to take the weather station or transmitter to a new location until antenna icon flashes.
7. Ensure both units are vertically placed.
8. Switch both units to normal mode.
9. The weather station receives temperature and humidity data at certain time interval. If there is no weather information display on the weather station over 1 minute. Please ensure the transmitter work properly and repeat step 6.

Using the transmitter and weather station:

There are four keys under the LCD display of the transmitter and on the back of the weather station

MODE

In normal mode: switch the unit into time setting mode.

In time setting mode: select the setting units.

SET

Set the normal time and alarm time(change the value in flashing unit).

AL. ON/OFF TEST

In normal mode : toggle the alarm on/off.

In time setting mode: toggle the test mode on/off

°C/°F

In normal mode: select Celsius or Fahrenheit as the temperature unit displayed.

TIME SET MODE

Alarm time setting:

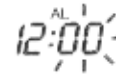
1. Press "MODE" once to read the preset alarm time.
2. To set the alarm time, press MODE key twice to enter this mode. "Hour" unit is flashing.
3. Press "SET" key to adjust the figure that you want.
4. Press "MODE" key, the "MINUTE" unit is flashing.
5. Press "SET" key to adjust the minute and release it when your desired time is reached.
Press AL. ON/OFF key in normal mode can toggle alarm on/off.



12:00



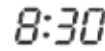
12:00



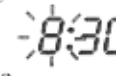
12:00

Normal time setting:

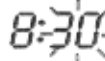
1. Press MODE key 4 times to enter this mode. The HOUR unit is flashing.
2. Press SET key to adjust the hour.
3. Press MODE key again, the MINUTE unit is flashing.
4. Press SET key to adjust the minute and release it when your desired time is reached.



8:30



8:30



8:30

TEST MODE:

Test mode is used to test the reception of the weather station from the transmitter

1. Turn on the transmitter, press MODE key. Press TEST key, TEST ON symbol is displayed on the LCD.
2. Turn on the weather station . Press MODE key first, then press TEST key , TEST ON symbol is displayed on the LCD.
3. Transmitter and the weather station are switched to test mode.

In order to switch to both unit, press MODE key twice or more times till some figures are flashing, then press TEST to turn off test mode.

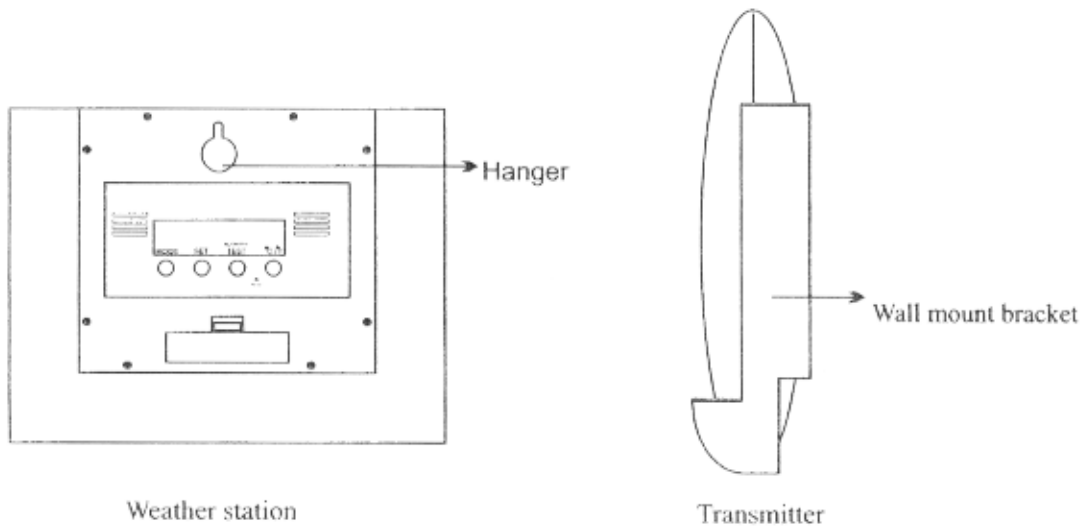
Caution: Test mode consumes more battery power that may reduce battery lifetime.

Remarks:

1. If the weather station enters time setting mode and no key was pressed within 10 seconds, it would switch to normal mode automatically.
2. When alarm alert, press any key to switch off the alert.
3. Weather station would switch to normal mode under test mode within 15 minutes.

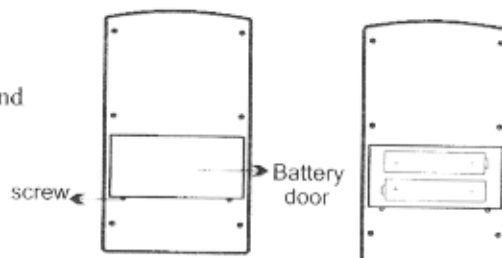
Place structure

The weather station built-in a hanger and the transmitter attached with a wall mount bracket to place it in a certain place.



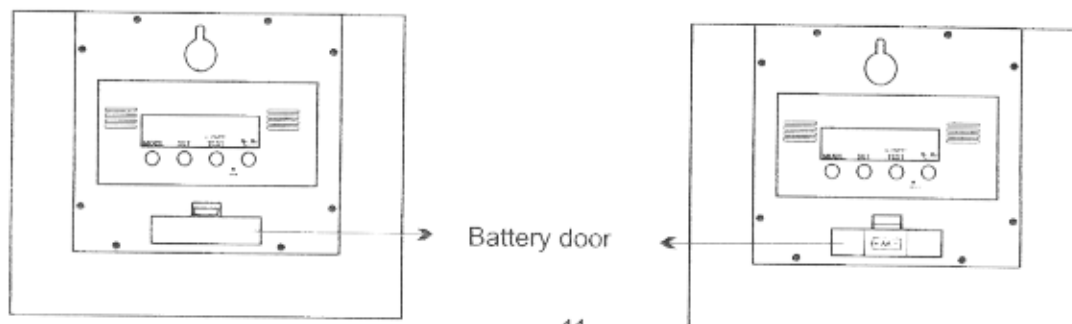
How to install and replace batteries in the transmitter

1. Take off the wall mounted bracket
2. Unscrew the screws on the back of the compartment and remove battery door..
3. Insert 2 AAA batteries at correct polarization.
4. Replace battery door on unit.
5. Seal the battery cover by re-screwing the screws.



How to install and replace the batteries in the weather station

1. Remove battery door at the back of compartment.
2. Insert 3 AA batteries at correct polarization.
3. Replace battery cover.



Maintenance

- > Do not submerge the transmitter and weather station in water.
- > Do not subject the units to unnecessary heat or cold.
- > Do not place the units near metal.
- > Do not try to open the units.
- > Ensure both transmitter and weather station are placed vertically.
- > Extreme temperatures, vibration and shock should be avoided.
- > Remove battery if you are not intended to use the units for a long time.

Troubleshooting and solution

1. I find nothing display on the transmitter and weather station, why?
Please ensure new battery is installed.
2. I find the transmitter and weather station doesn't work properly. Both units display abnormal temperature or humidity data or segments on LCD display are missing.
Please ensure both units are working at operation temperature. Please check the specifications.
3. Can I set the weather station to update outdoor weather information more frequently?
No, the transmitter sends information to the weather station at a fixed rate.
4. How can I know the current time is AM or PM?
When the current time is displayed in PM, PM icon will be showed. If the current time is displayed in AM, PM icon will disappear.

Specifications

Temperature and humidity transmitter:

Operating temperature:	-20°C to +60°C
Measuring temperature:	-20°C to +60°C
Measuring humidity:	20%-90%(resolution: 1%)
Temperature Accuracy:	±1°C
Humidity Accuracy:	±5%
Transmitting range:	25m(max.)
Temperature check:	Every 5 minutes
Humidity check:	Every 5 minutes
Temperature transmission:	Every 5 minutes
Humidity transmission:	Every 5 minutes
Battery:	3V(2 x AAA size)
Battery lifetime:	Approximately 1 year
Transmitting frequency:	433MHz

Weather station

Operating temperature:	+0°C to +50°C
Measuring temperature:	+0°C to +50°C
Temperature Accuracy:	±1°C
Humidity Accuracy:	±5%
Receiving range:	25m(max)
Temperature check:	Every 1 minute
Humidity check:	Every 1 minute
Temperature receiving:	Every 1 minute
Humidity receiving:	Every 1 minute
Battery:	4.5V(3 x AA size)
Battery lifetime:	Approximately 1 year
Operating frequency:	433MHz
DC adapter input voltage:	4.5V DC

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.