
Weather Station (Transmitter) Wireless Pool Thermometer User Manual



1. Introduction

Thank you for your purchase of the Wireless Waterproof Floating Pool and Spa Thermometer. The following user guide provides step by step instructions for installation, operation, and troubleshooting.

2. LCD display

Out of the box the new sensor is dormant, you should press and hold the main button for 3-5 seconds to wake up the device, and then you will see the following information in sequence:

1. The version number:
2. The transmission frequency
3. The device ID

*This is unique to each sensor and will vary sensor-by-sensor

4. Full segment display



3. Getting Started

3.1 Parts List

QTY	Item
1	Thermometer transmitter for pool/SPA Dimensions (LxHxW): 155x64x64mm LCD Dimensions (LxW): 26x15mm Remote sensor depth: (155mm)

3.2 Sensor Placement

1. Place the sensor in the pool or spa within 30 meter of the display console. Avoid transmitting through solid earth or ground Use a tether (string, not included) to affix the sensor location in the pool or spa using the attachment point.
2. Other barriers to wireless transmission: concrete, cinder blocks, pavers, decking, water features, steps, etc.
3. Place the console at least three feet away from computers, TVs, and wireless phones.
4. Avoid transmitting through solid metal barriers

3.3 Button function

When the device is in Sleep mode, press and hold (3-5 seconds) to turn on the device.

When in the normal display mode:

- Press and hold (10 seconds) to turn on Sleep mode. There will be no display and the system enter the low-power mode.
- Press and hold (2 seconds) to enter Setup mode, short press to switch channel (it can support 8 channels)
- Press to switch °C and °F

4. Pairing sensor with Weather Station.

4.1 HP2550/HP2553

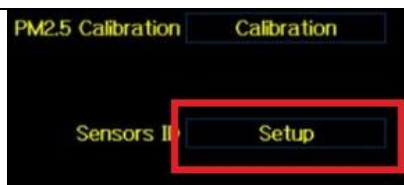
Enter setup mode as in the picture below.



Enter the Setup Mode



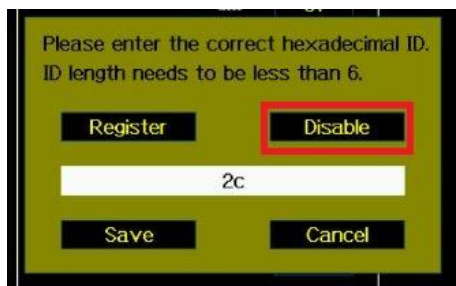
Select “Setup” next to More to access the More screen.



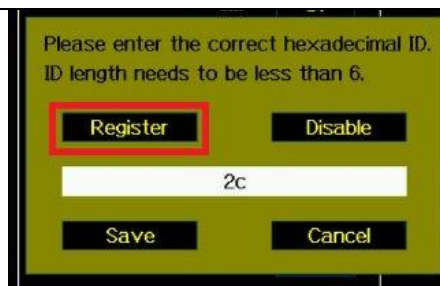
Select “Setup” next Sensors ID to access the Sensors ID screen.

Select the Sensor ID next to the sensor you want to register. Float will be T&H

CH	Sensor	Signal	ID
OUT	PM2.5	1d	59
IN	PM2.5		----
1	T&H	1d	ca
2	T&H	1d	1d
3	T&H	1d	9c

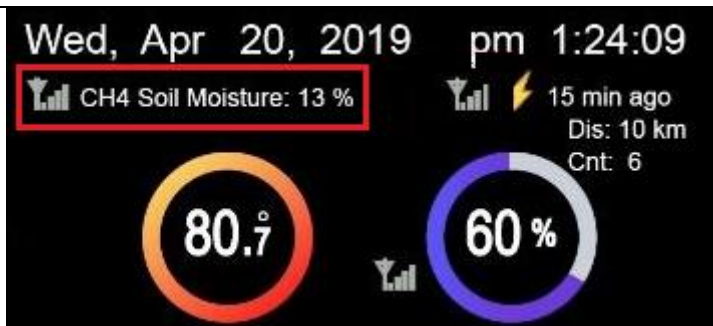


Select ‘Disable’ to turn the sensor off



Select ‘REGISTER’ to re-register the sensor to the console

Return to the Home Screen to view the Pool Float Data.



4.2 WH2900

The WH2900 supports the WN36, and the console receives and sends this data directly to Ecowitt.net. The data is not displayed on the console (pass through only) and cannot be calibrated.

4.3 GW1100 WiFi Gateway

The GW1100 support read the data on the Live Data pages of WS View Plus app (requires the gateway and your phone is using the same Wi-Fi network) .Battery level information displayed on the WS View Plus App

Up to 8 channels supported. Channel names can be edited on the app.

5. Specifications

5.1 Measurement Specifications

Measurement	Range	Accuracy	Resolution
Channel 1-8 Temperature	-40 to 60 °C	±1 °C	0.1 °C

5.2 Wireless Specifications

- Line of sight wireless transmission (in open air): 100 Meter,

60 Meter under most conditions.

- Frequency: 915MHz
 - Update Rate:
Temperature update interval: based on channel selection
- | | |
|----------------|----------------|
| Channel 1: 61s | Channel 5: 65s |
| Channel 2: 62s | Channel 6: 66s |
| Channel 3: 63s | Channel 7: 67s |
| Channel 4: 69s | Channel 8: 68s |

5.3 Power Consumption

- Sensor: Internal AA, sealed alkaline battery (non-replaceable)
- Battery life: 24-36 months with regular use (extended the battery life by turning unit off when not in use)
- Extend battery life by turning off the sensor when not in use by pressing and holding the button on the bottom of the unit for 10 seconds. Power the sensor up again by pressing and holding the button for 3-5 seconds.

6. Troubleshooting Guide

Problem	Solution
Wireless remote (floating thermometer) not reporting into console.	Move the sensor closer to the display console.
There are dashes (--.-) on the display console.	If the sensor assembly is too close (less than 5'), move the sensor assembly away from the display console.
	Make sure the remote sensor LCD display is working and the transmitter light is flashing once per

Problem	Solution
	<p>60 seconds.</p> <p>Make sure the remote sensors are not transmitting through solid metal (acts as an RF shield), or earth barrier (down a hill).</p> <p>Move the display console around electrical noise generating devices, such as computers, TVs and other wireless transmitters or receivers.</p> <p>Use the tether to fix the sensor as close as possible to the console.</p>

7. FCC Statement

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.
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.