

# User Manual

## AE Wireless Temperature Sensor

*Version 1.0.0 - 4/22/2021*

### Product Overview

Items Included:

1. 1 - AE Wireless charging station (WCS)
2. 4 - AE Wireless Temperature Sensors (WTS)
3. 1 - AC Adapter
4. 1 - USB-A to USB-C charging cable.

The AE Wireless Temperature Sensor contains an infrared temperature sensor which is used to measure and record the temperature of a surface. A User is able to place the device against a desired surface and continuously monitor the temperature of the location. The sensor is able to record and wirelessly transmit the temperature data to a mobile device.

### Notes

In order for the User to access the information transmitted by the Wireless Temperature Sensor (WTS), there is an accompanying AE mobile application that must be downloaded and used on a mobile device. The mobile application allows the user to interface with the WTS and access WTS's internal information wirelessly.

### Operational Modes

The AE Wireless Temperature Sensor (WTS) contains two operational modes, and one sleep mode. The first operational mode is charging, where the device is not performing temperature measurements and is focused on charging the internal battery. While the WTS is charging, it will limit wirelessly accessible data to the state of charge of the battery and charge status. This is reflected in the mobile application where the user is able to see the status of the battery while temperature information is removed from view.

The second mode is normal operation mode. In this mode the WTS discharges from the internal battery and performs periodic temperature readings from the surface directly in front of the infrared temperature sensor. The data is collected and wirelessly transmitted to a mobile device. During this operational mode the User is able to view within a mobile application, battery status information and periodic temperature information.

The last operational mode is sleep mode. In the event the internal battery is discharged to a critical level. The sensor will enter a sleep mode and will be unable to be detected or connected to wirelessly. It is recommended when the device enters this sleep state that the User places the device on the charger within 24 hours, in order to recharge the sensor's internal battery.

## Charging

\* \* \* It is recommended to fully charge the device before first time use. \* \* \*

\* \* \* If the WTS is not positioned correctly within the charging station, it will not charge. \* \* \*

In order to charge the WTS units, the User must:

1. Plug the AC wall adapter into a powered wall socket.
2. Connect the USB cable into the AC wall adapter (USB-A) and into the wireless charging station.
  - a. The User should see the wireless charging station's indicator led illuminate within 10 seconds of power on.
3. Place the WTS units in their proper orientation on the wireless charging station.

## WTS Placement

After the wireless charging station is powered on. The user may place the Wireless Temperature Sensors WTS in any order onto the wireless charging station. The WTS and wireless charging station are keyed in order to indicate the proper placement of the WTS within the wireless charging station. The WTS should be placed correctly within the slots with the notched groove on the bottom and closest to the outside edge of the wireless charging station. Allow the WTS to lie flat within the slots of the wireless charging station. If the WTS is not flat when placed onto the wireless charging station the user must remove the WTS and replace the WTS within the wireless charging station correctly in order for the WTS to charge. If a WTS is not positioned correctly within the wireless charging station it will not charge.

## Charging Notes

First time charge may take up to 24 hours. It is recommended to fully charge the WTS before first time use by leaving the WTS within the charger for 24 hours. User is able to read the battery state of charge and charge status through the mobile application.

After first charge, normal charge times may range between 10 to 12 hours when the WTS begins charge with a partially drained internal battery.

It is recommended to allow the device to fully charge before use. However, the device may be used without reaching the fully charged state. The User in this case may see degraded performance in the WTS operational time in normal operational mode.

Once charge is completed the user must leave the WTS units in a powered wireless charging station until needed for use. As the removal from the wireless charging station will trigger the WTS to exit the charge mode and enter normal operation which will discharge the battery.

## Normal Operation

In order to activate normal operation the User must simply remove the WTS from an active charger. After 5 to 10 seconds, the WTS will exit charge mode and enter normal operation. Using the mobile application the User is able to view the operational transition of the device as the temperature reading will be displayed. The temperature reading displayed to the User will periodically update with the temperature data recorded of the surface in front of the infrared temperature sensor.

The WTS may be held in place on a surface using tape or fabric as long as it does not hinder the WTS ability to transmit data wirelessly.

## FCC Notification

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 equipment being interfered with.
- Increase the separation between the charger and the equipment subject to interference.
- Connect the equipment into an outlet on a circuit different from that to which the charger is connected.
- Consult the dealer or an experienced radio/TV/electronics technician for help.

CAUTION: 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.

## RF Exposure Notice

Gorilla Horse Sensor has been evaluated to meet general RF exposure requirement. This device can be used in portable exposure condition without restriction.

## FCC Supplier's Declaration of Conformity

Model: 28-0010038

FCC ID: 2AX20-280010319

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.

Responsible Party in the USA:

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