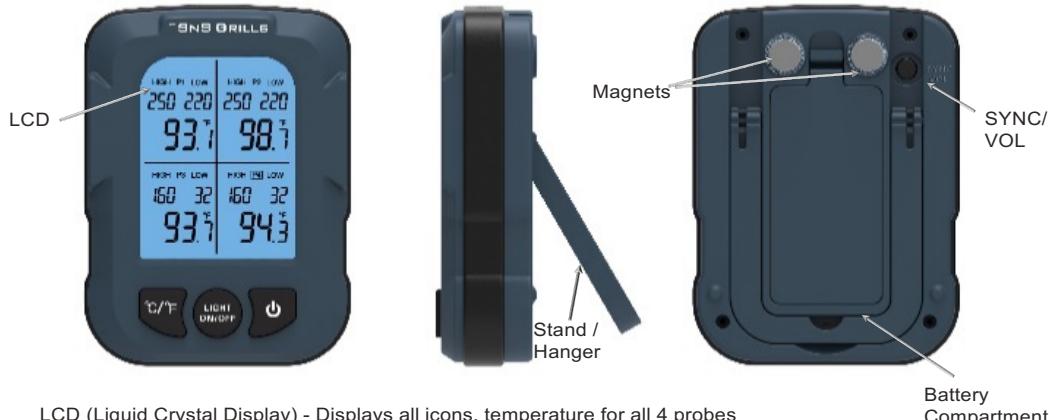


**SNS-500 INSTRUCTION MANUAL**  
**EXTENDED RANGE WIRELESS FOOD THERMOMETER**
**INTRODUCTION**

Congratulations on your purchase of the **SNS-500**, a programmable radio frequency food thermometer. You can now remotely monitor the temperature of grilling food and the temperature inside your grill from up to 500 ft away.

**COMPONENTS**

1. 1- Receiver unit - smaller unit
2. 1- Transmitter unit - larger unit
3. 1-2 detachable stainless steel 6" long waterproof food probes
4. 1-2 detachable stainless steel 3" long waterproof bbq probes with clips
5. 4- AAA batteries

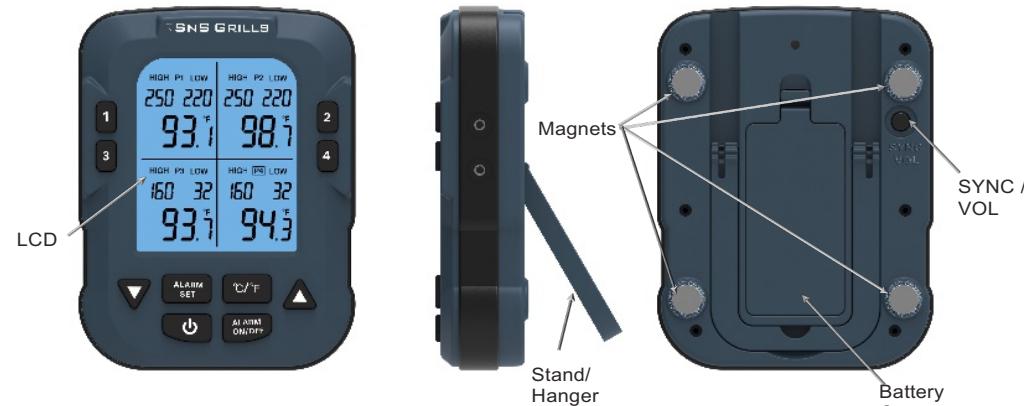
**RECEIVER FEATURES**


- LCD (Liquid Crystal Display) - Displays all icons, temperature for all 4 probes
- BATTERY COMPARTMENT - Holds 2 AAA batteries
- STAND/HANGER - Swings out and allows you to hang the unit or stand the receiver on a tabletop
- MAGNETS – Allows you to affix to most metallic surfaces

**RECEIVER BUTTONS**

1. **°C/F** - Press to switch display between Fahrenheit or Celsius.
2. **ON/OFF** - A quick press turns the unit on. Press and hold for 2 seconds to turn the receiver off.
3. **LIGHT ON/OFF** - A quick press turns the LED flashlight on or off.
4. **SYNC / VOL** - With both units in close proximity to each other, press and hold both this button and the SYNC / VOL button on the transmitter unit for 2 seconds to sync the units. Once the units have connected you will see this symbol . A short press of this button will allow you to adjust the volume of the unit from its low to high setting and vice versa.

Pressing any button turns on the LCD backlight for approximately 10 seconds.

**TRANSMITTER FEATURES**


- LCD (Liquid Crystal Display) - Displays all icons, temperature for all 4 probes
- BATTERY COMPARTMENT - Holds 2 AAA batteries
- STAND/HANGER - Swings out and allows you to hang the unit or stand the transmitter on a tabletop
- MAGNETS - Allows you to affix to most metallic surfaces

Temperature range of probe: 14 °F to 572°F (-10°C to 300°C)

**TRANSMITTER BUTTONS**

1. **Probe Buttons 1,2,3,4** – A quick press of any button sets the High and Low Alarm temperatures. A long press (2 seconds) in Alarm mode turns off the Alarm for that probe. (Example: long press button 1 turns off alarm for probe 1).
2. **▼ (Down) / ▲ (Up)** - Press to lower or raise the Alarm temperatures. See below for adjusting volume.
3. **ALARM ON/OFF** - Press to activate or deactivate the Alarm mode for all probes.
4. **ALARM SET** - Press to lock in High/Low Alarm temperature.
5. **°C/F** - Press to switch display between Fahrenheit or Celsius.
6. **ON/OFF** - A quick press turns the unit on. Press and hold for 2 seconds to turn the transmitter off.
7. **SYNC / VOL** – With both units in close proximity to each other, press and hold both this button and the SYNC / VOL button on the receiver unit for 2 seconds to sync the units. Once the units have connected you will see this symbol . A short press of this button will allow you to adjust the volume of the unit from its low to high setting and vice versa.

Pressing any button turns on the LCD backlight for approximately 10 seconds.

**INSTALLING BATTERIES**

Open the battery compartment of the receiver and transmitter by pressing down the battery door latch. Insert two "AAA" batteries with correct polarity. Align the battery door and snap the latch back in place.

**EZ-SYNC TECHNOLOGY**

With both units on, sync the receiver with the transmitter by pressing and holding down the VOL/SYNC buttons for 2 seconds on both the transmitter and receiver. It does not matter what order.

**SYNC LOSS ALARM**

The receiver will begin silently flashing after loss of the synced connection for 60 seconds. The receiver will continue flashing silently for 3 minutes. In this time the units will attempt to re-sync with one another. This gives the receiver time to re-sync before notifying you, which makes the receiver more convenient to use when close to the receiver's range limit. After 3 minutes, an audible alarm will sound on the receiver for 60 seconds to alert you that they will need to be re-synced.

## SET UP THE UNITS

The SNS-500 comes with 2 waterproof 3" long hybrid meat/bbq probes and 2 waterproof 6" long hybrid probes.

1. Insert probe jacks into any of the probe ports on the larger transmitter unit.
2. Turn both units on in any order and sync the units per the previous instructions.
3. Wait for the temperatures displayed on the transmitter to also appear of the receiver.

## SET ALARM TEMPERATURES ON THE TRANSMITTER

Alarms for Probe 1 and 2 are set at the factory for monitoring a smoker with High of 250 F and Low of 220 F. Probes 3 and 4 are set at the factory to monitor a meat with High of 160 F and Low of 32 F (so the Low alarm alert is bypassed). After powering on, the units will not audibly alarm until the first time the minimum setpoint is exceeded, i.e., during "warm up." The temperatures for each probe will flash, i.e., inaudible alarm, when temperatures are outside of the low and high setpoints.

To set audible alarm temperatures for each probe:

1. Press PROBE 1,2,3 or 4 button and the probe temperature will flash for that probe and the square around the P# will also flash.
2. Press that same button and the HIGH temperature alert will flash. Press **▼** or **▲** to LOWER or RAISE the high temperature alert.
3. Press ALARM SET to lock the new high temperature alert in and then the low alert temperature alert will flash.
4. Press **▼** or **▲** to LOWER or RAISE the low temperature alert. (If the low alarm is not needed, press the probe button again to quickly set the low temperature to 32 F / 0 C.)
5. Press ALARM SET to lock the new low alert temperature in. Nothing will be flashing. The alarm will automatically turn on for the programmed probe.
6. Repeat for the other 3 probes.

Audible alarms may be silenced by pressing any button on the unit after the alarm sounds.

To enable/disable an audible alarm:

1. Press the ALARM ON/OFF button to turn on the alerts for all probes. You will see this symbol – (●●) – in between the high and low temperature set points on the display.
2. In ALARM mode press & hold the PROBE 1,2,3 or 4 button to disable the alarm for that probe ONLY.
3. Pressing ALARM ON/OFF again will disable ALL of the probe alarms.

Note: Programmed alerts will be remembered when the device is turned off.

## SET UP THE GRILL

1. Insert 6" food probe sensor into the center of thickest portion of the meat or food. Avoid touching bone or gristle.
2. Pinch clip and attach clip to the grate. Insert the 3" bbq probe into the clip to monitor grill temperature. We recommend placing the probe one to two inches away from the meat and avoid sides of the bbq/grill for most accurate reading.
3. Position the probe sensor wires so they will not contact any flames and they exit the grill without being pinched/crushed by the cover.
4. Stand/ hang the transmitter away from heat source of grill or any parts of the grill that are warm or hot to the touch. DO NOT attach transmitter on closed grill cover or under the grill cover. The transmitter is waterproof for use in rain when all four probes are installed but should not be immersed in water.

## HELPFUL HINTS

When placing probes to monitor ambient temperature within the bbq/grill, remember that temperature can vary across the grill surface area and also vertically in the bbq/grill.

If the receiver and the transmitter display LL.L or HH.H instead of the probe temperature, the probe has reached a temperature outside of its useful range. If the reading is HH.H remove the probe from the bbq/grill and wait for probe to reach room temperature. If you desire, cool your bbq/grill down by following the manufacturer's instructions before attempting to reuse the probe to prevent damage. If LL.L is displayed while the probe is inserted into a piece of meat, it is likely the meat is below 32 F. You can give your meat time to warm up or remove the probe and let it come to room temperature. If LL.L or HH.H is still displayed, after taking these actions, it is likely the internal probe wire has shorted out either through moisture or heat damage.

Note on reading meat temperatures: If the temperature displayed seems to be reading too high or that the temperature seems to be increasing too quickly, check to make sure the probe tip is not poking outside through the food. Reposition the probe tip in the center of the thickest part of food. Avoid touching bones or heavy fat areas.

## CAUTIONS

Always wear a heat resistant glove to touch the stainless steel probe sensors or wires during or just after cooking. Do not touch with bare hands.

Keep the stainless steel probe sensors and wires away from children.

Clean the stainless steel probes and dry thoroughly after each and every use.

The transmitter is water resistant when all 4 probes are installed but not water tight. Do not immerse in water while cooking or cleaning the unit.

Do not expose the plugs of the stainless steel probes or the plug in holes of the transmitter to water or any liquid. This will result in a bad connection and/or faulty readings.

Do not expose the receiver or transmitter to direct heat or surface. Do not use stainless steel probes in microwave ovens.

Temperatures as low as 14 °F (-10 °C) and as high as 572 °F (300 °C) will be registered on the units.

LL.L will be displayed below 14°F and HH.H will be displayed above 572 °F. Do not use the stainless probe sensor above 572 °F. Doing so will deteriorate the wire.

Not intended for use by persons aged 12 and Under.

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.

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.

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, and/or consult the dealer or an experienced radio/TV technician for help.

## CLEANING

Always wear a heat resistant glove to touch the stainless steel probe sensors or wires during or just after cooking. Do not touch with bare hands.

Keep the stainless steel probe sensors and wires away from children. Wash the metal probe tips with hot soapy water and dry thoroughly.

Wipe the transmitter and receiver with a damp cloth. Do not immerse either in water while cleaning.

## 1-YEAR LIMITED WARRANTY

SNS Grills' warrants the SNS-500 to be free of defects in parts, materials and workmanship for a period of 1 year from date of purchase. Should any repairs or servicing under this warranty be required, contact SNS Grills Customer Service by email or mail for instruction on how to pack and ship the SNS-500 to SNS Grills:

SNS Grills  
4341 Triple Crown Dr SW  
Concord, NC 28027  
email: [info@snsgrills.com](mailto:info@snsgrills.com)

Do not send any parts or product to SNS Grills without obtaining a Return Authorization Number and instructions. This warranty is VOIDED if instructions for use are not followed. Warranty does NOT apply to accidental damage, commercial use, damage in transit or if the SNS-500 has been tampered with.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

## REPLACEMENT PROBES

During warranty period, stainless steel probes will be replaced free of charge.

To purchase replacement probes out of warranty, visit [snsgrills.com](http://snsgrills.com).

