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ELECTRONIC THERMOMETER

Model NTS-912

User Manual

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INTRODUCTION

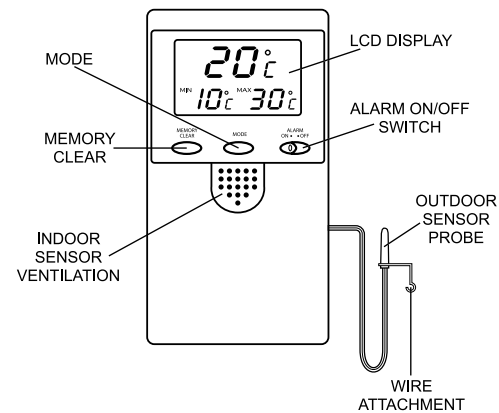
Thank you for purchasing the Oregon Scientific thermometer. This thermometer has been designed specifically with performance and ease of use in mind. As with all Oregon Scientific products, this thermometer is made to the highest quality standards using precision electronic components and should give you many years of trouble free use.

Please read the user manual carefully before use to ensure you get the best out of your new thermometer.

FEATURES

- LCD digital thermometer.
- indoor current temperature or outdoor current temperature, maximum and minimum memory display at the same time.
- High / Low temperature alarm function.
- Alarm will sound and be repeated for a period of 12 hours if not deactivated.
- User selectable °C or °F temperature units of measure.
- User selectable normal or fast sampling cycle.
- **Built-in** low battery signal indication.

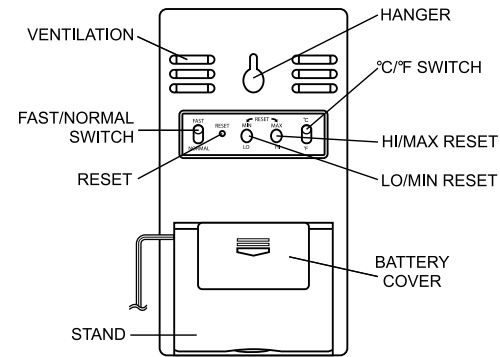
DESCRIPTION OF PARTS



FRONT VIEW



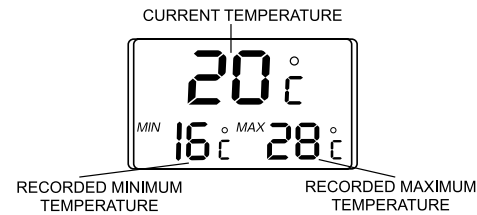
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REAR VIEW

NOTE After replacing the battery, the display will turn on for about 3 seconds and then show the **MAX/MIN DISPLAY MODE**.

DISPLAY AND FUNCTIONS

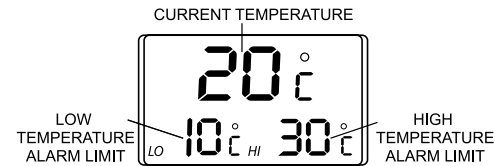


MAX/MIN DISPLAY MODE

INSTALLING AND REPLACING THE BATTERY

The thermometer uses one piece UM-4 or 'AAA' size battery. If the °C or °F digit flashes, remove the exhausted battery and follow these steps to install or replace the battery:

1. Slide the battery cover in the direction of the arrow.
2. Insert the battery as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
3. Replace the battery cover.



HI/LO DISPLAY MODE

GENERAL OPERATION

The unit has two operating modes: **MAX/MIN DISPLAY MODE** and **HI/LO DISPLAY MODE**. To change from one mode to another, press **[MODE]** button once.

MAX/MIN DISPLAY MODE:

Shows the current temperature and the maximum and minimum temperature at the same time.

NOTE Initially the 'Max' and 'Min' values will display the same temperature values as the current temperature display until changes in temperature are recorded.

HI/LO DISPLAY MODE:

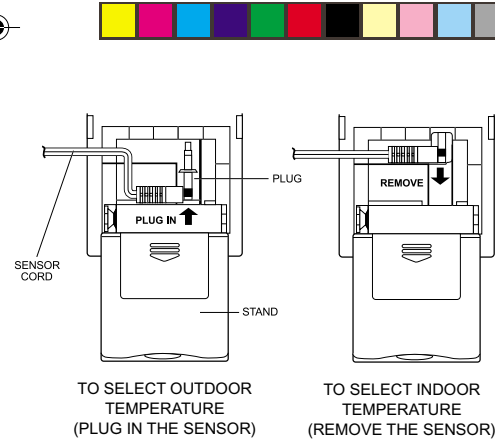
Shows the current temperature and the preset high and low temperature alarm limit.

HOW TO SELECT THE INDOOR OR OUTDOOR TEMPERATURE READING

The outdoor temperature will be measured if the outdoor sensor probe is plugged in, and indoor temperature is measured if the outdoor sensor probe is removed.

The outdoor sensor plug is located inside the battery compartment.

To remove/plug in the outdoor sensor, slide the battery cover in the direction of the arrow, then remove/insert the plug toward/away from the battery.



HOW TO RESET THE MAXIMUM OR MINIMUM MEMORIES

There are two ways to reset the **Max / Min** memories,

1. For resetting both memories – In the **MAX/MIN DISPLAY MODE**, press the **[MEMORY CLEAR]** button once.
2. For resetting individual **Max** or **Min** memories – In the **MAX/MIN DISPLAY MODE**, press either the **[MAX]** button or the **[MIN]** button once to reset the respective memory. The other memory will be unaffected.

NOTE Resetting a memory will result in current temperature being displayed in the **Max** or **Min** memory display.

ABOUT THE TEMPERATURE ALARM

Whenever the alarm is activated, the alarm will sound for 1 minute when the current temperature rises and **crosses** the high or low temperature alarm limit.

If the unit is left unattended, the alarm will stop automatically after 1 minute to conserve power but will issue a **3-second** repeater 'beep' sound every minute for up to 12 hours as a continued warning that the temperature has moved outside the alarm limit.

The repeater alarm will continue to sound even if the temperature later returns to the allowed temperature band, until the alarm is deactivated.

NOTE If the unit **shows** the **MAX/MIN DISPLAY MODE**, the respective alarm indicator – either **HI** or **LO** will flash continuously for up to 12 hours, or until the alarm is deactivated.

If the unit shows the **HI/LO DISPLAY MODE**, the respective alarm limit digit will flash continuously for up to 12 hours, or until the alarm is deactivated.

HOW TO SELECT THE ON / OFF OF THE TEMPERATURE ALARM

Activating the Alarm

1. Slide the **[ALARM ON / OFF]** switch to the **ON** position to activate the temperature alarm.

NOTE If the **[ALARM ON / OFF]** switch is in the **OFF** position

and the temperature has already risen / dropped and passed the high or low limit, at that instant, no alarm will sound if the **[ALARM ON/OFF]** is switched to the **ON** position so that no alarm will sound.

Deactivating the Alarm

1. When the alarm sounds, the alarm can be stopped by pressing either the **[HI]**, **[LO]** or **[MEMORY CLEAR]** buttons.

The Thermometer will sound the alarm again next time, when the temperature rises and passes the high or low temperature alarm limit.

2. Slide the **[ALARM ON / OFF]** switch to the **OFF** position, to switch off the alarm permanently.

NOTE Indoor high / low temperature alarm limit can be set to work whenever the outdoor sensor probe is removed.

NOTE Outdoor high / low temperature alarm limit can be set to work whenever the outdoor sensor probe is inserted into the sensor jack.

HOW TO SET THE HIGH / LOW TEMPERATURE ALARM LIMITS

The unit must show the **HI/LO DISPLAY MODE** to allow the alarm to be set.

To set the high temperature alarm limit, press the **[HI]** button to increase by 1° increments until the desired high temperature alarm limit is displayed.



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The selecting range is from -50°C to +70°C (-58°F to +158°F). Press and hold the [HI] button to select the high temperature alarm limit more quickly.

To set the low temperature alarm limit, press the [LO] button to increase by 1° increments until the desired low temperature alarm limit is displayed.

The selecting range is from -50°C to +70°C (-58°F to +158°F). Press and hold the [LO] button to select the low temperature alarm limit more quickly.

HOW TO SELECT THE TEMPERATURE UNITS OF MEASURE

The switch on the back of the Thermometer selects between degrees Celsius and Fahrenheit. To select Celsius units, set the switch to °C. To select Fahrenheit units, set the switch to °F.

NOTE Reset the Thermometer unit after any change to the temperature units.

HOW TO SELECT THE RATE OF SAMPLING CYCLE

The switch on the back of the Thermometer selects between **NORMAL** and **FAST** sampling cycle. To select a 60-second sampling cycle, set the switch to **NORMAL**. To select a 10-second sampling cycle, set the switch to **FAST**.

NOTE Reset the Thermometer unit after any change to the sampling cycle.



THE RESET BUTTON

Uses a pointed object to push the reset button once, which is located on the back of the unit, to update the display whenever a change is made to either of the following:

1. Display unit changed to degrees Celsius or Fahrenheit,
2. Rate of sampling change to **NORMAL** or **FAST** sampling cycle.

NOTE After resetting the unit, the **high / low** temperature alarm limit setting will be cleared and reset to its preset value.

After resetting the unit, the minimum and maximum temperature recorded will be reset.

LOW BATTERY SIGNAL INDICATION

If the voltage of the battery becomes low, all °C or °F digits will flash. Replace the battery when °C or °F digits flash.

SECURING THE OUTDOOR SENSOR PROBE

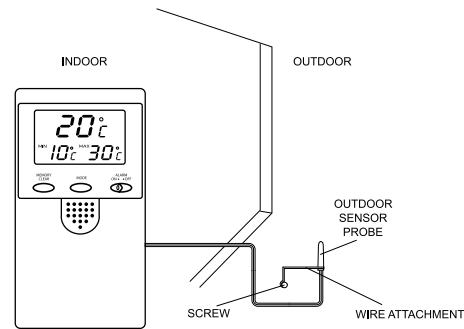
You can mount the outdoor sensor probe by following these steps below:-

1. Drive a screw (not included) into the wall at the location that the outdoor sensor probe wire will be attached.
2. Route the outdoor sensor's cord 3 m (10 ft) through the window.
3. Hang the outdoor sensor's wire attachment loop onto the screw.





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NOTE Locate the outdoor sensor probe away from the direct sunlight and heavy precipitation.

FREE STANDING OR WALL MOUNTING

Stand

Flip out the plastic stand on the rear of the Thermometer for table standing. Stand the thermometer on a flat surface.

Wall Mount

You can mount your Thermometer on a wall by using a screw (not supplied) with the screw head extending about 3.5mm (0.14 in) from the wall.

NOTE For accurate measurement, you should mount the Thermometer in an area where air can flow freely around it.

MAINTENANCE

The following suggestions will help you care for the Thermometer so you can enjoy it for years.

1. Keep the Thermometer dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electric circuits.
2. Use and store the Thermometer only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the battery, and distort or melt plastic parts.
3. Handle the Thermometer gently and carefully. Dropping it can damage circuit boards and cause the Thermometer to work improperly.
4. Keep the Thermometer away from dust and dirt, which can cause premature wear of parts.
5. Wipe the Thermometer with a damp cloth occasionally to keep it looking new. Do not use harsh chemical, cleaning solvents, or strong detergents to clean the Thermometer.
6. Use only fresh batteries of the required size and type. **Always remove old or weak batteries.** They can leak chemicals that can destroy electronic circuits.
7. Modifying or tampering with the Thermometer's internal components can cause a malfunction and might invalidate its warranty.

SPECIFICATIONS

Operating temperature	: 0°C to 50°C (32°F to 122°F)
Temperature measuring range (unit : indoor sensor)	: 0°C to 50°C (32°F to 122°F)
Temperature measuring range (probe : outdoor sensor)	: -50°C to 70°C (-58°F to 158°F)
Temperature alarm setting range (unit : indoor sensor / probe : outdoor sensor)	: -50°C to 70°C (-58°F to 158°F)
Temperature display resolution (unit : indoor sensor / probe : outdoor sensor)	: 1°C (2°F)
Temperature sampling cycle (unit : indoor sensor / probe : outdoor sensor)	: 60 seconds (Normal) or 10 seconds (Fast)
Power source	: Uses 1 piece UM4 or 'AAA' size battery (not included)
Battery Life	: Approx. 12 months
Weight	: 93 g (3.3 oz) (without battery)
Size	: 115 x 64 x 17mm (4.5 x 2.5 x 0.7 in) (H x W x D)

- The **contents** of this manual is subject to change without further notice.
- Due to printing limitations, the displays shown in this manual may differ from the actual displays.
- The manufacturer and its suppliers hold no responsibility to you or any other person for any damages, expenses, lost profits, or any other damages that result in your use of this Thermometer.
- The contents of this manual may not be reproduced without the **permission** of the manufacturer.



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We hope you will find all the information you need on our website, however if you'd like to contact the Oregon Scientific Customer Care department directly, please visit:

www2.oregonscientific.com/service/support OR Call 949-608-2848 in the US.

For international enquiries, please visit:

<http://www2.oregonscientific.com/about/international/default.asp>

EC-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Electronic Thermometer, model NTS912 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

