Project Type Instructions	**Date:** December 16 2019 **Customer:** Thermor ltd **Job Number:** TH1681 **Item Number:** 312BC **Designer:** Alex Vranjesevic	**PO:** 24664-00 **Revision:** A	Thermor **Contact:** Graphic's Department graphics@thermor-ins.com
UPC (For Reference Only) 0 57475 31223 7	Reason For Project: New Item: **X** New Branding: Design Update: N/A:	Artwork is not to be amended or scaled. If any changes are required please send through Thermor office with instructions, and we will amend here and resend artwork through. **PLEASE RETURN WITH SIGNATURE**	Colour Breakdown C M Y K

Indoor/Outdoor Wireless Thermometer and Hygrometer

BIOS
Weather

312BC

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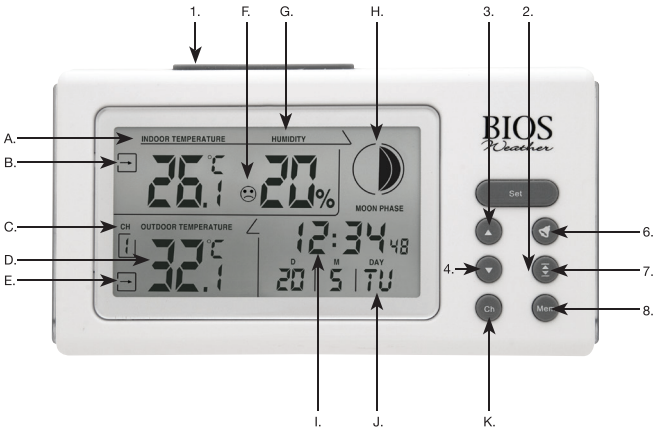
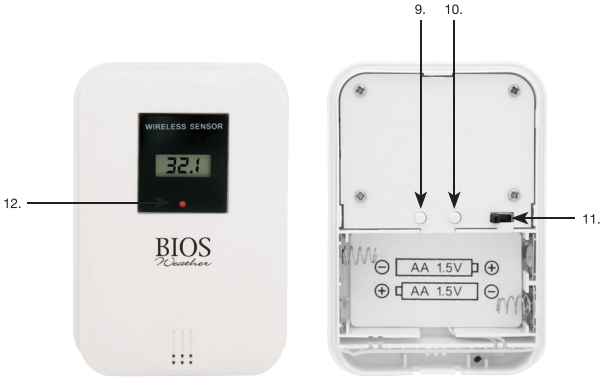
Monitor:



Sensor:



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Colour Breakdown
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Indoor/Outdoor
Wireless Thermometer and Hygrometer

Monitor:

A. Indoor Temperature
B. Indoor Temperature Trend
C. Channel
D. Outdoor Temperature
E. Outdoor Temperature Trend
F. Comfort Icon
G. Indoor Relative Humidity
H. Moon Phase
I. Time
J. Date

1. Snooze/Light Button
2. Set Button
3. ▲ Button
4. ▼ Button
5. Ch Button
6. Button
7. Button
8. Mem Button

Remote Sensor:

9. °C/°F Button
10. TX Button
11. Channel Switch
12. Transmission Light

Care of the Device

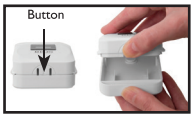
- Avoid exposing units to extreme temperatures or severe shock.
- Avoid contact with any corrosive materials such as perfume, alcohol or cleaning agents.
- **Do not** subject the units to excessive force, shock, dust, temperature or humidity. Any of these conditions may shorten the life of the units.
- **Do not** tamper with any of the internal components of these units. This will invalidate the warranty and may cause damage.

Correct Usage of Batteries

- **Do not** mix standard and rechargeable batteries.
- **Do not** mix new and old batteries.
- When the low battery symbol appears on the display replace all batteries with new ones.

Setup Procedure

1. Insert batteries into the monitor first.
2. To insert batteries into the remote sensor, press the button located on the bottom of the remote sensor. While pressing the button pull the back of the sensor off.
3. Place the monitor as close as possible next to the remote sensor. Before inserting the batteries into the sensor ensure the correct channel is selected (see sensor diagram for location of channel switch) then insert the batteries into the remote sensor.



4. The transmission light will flash on the remote sensor indicating that the signal has been sent to the monitor. Once the signal is received, the dashes (--.-°C) on the monitor will change to the current outdoor temperature.

NOTE: If after 5 minutes the screen does not change to show the outdoor temperature, remove all batteries from both units and insert again, starting with the monitor.

5. Position the monitor and remote sensor within effective transmission range, which in usual circumstances is 30 meters (100 feet). The range is affected by the building materials and where the monitor and remote sensor are positioned; try various locations for the best results.

NOTE: The remote sensor should be placed outdoors in a shaded area for accurate readings.

Troubleshooting

If the outdoor temperature cannot be received, check:

1. The distance between the monitor or remote sensor should be at least 1.2 meters (4 feet) away from any interfering sources such as computer monitors or TV sets.
2. Avoid placing the monitor onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the same frequency (433MHz) may prevent correct signal transmission and reception.
4. Neighbours using electrical devices operating on the 433MHz signal frequency can also cause interference.
5. Signals from other household devices, such as door bells and home security systems, may temporarily interfere with the units and cause reception failure. The transmission and reception of temperature reading will resume once the interference has stopped.

The maximum transmission range is 30 meters (100 feet) from the remote sensor to the monitor (in open space). However, this depends on the surrounding environment and interference levels. The temperature signal travels in a straight line from the remote sensor to the monitor. The signal will not curve around an object. If no reception is possible, despite the observation of these factors, all units will have to be reset.

Displaying Different Channels

This unit has the capability of receiving measurements from multiple remote sensors. If you have registered more than one remote sensor, press the **CH** button on the monitor to select the outdoor sensor channel you want to display permanently. Press and hold the **CH** button if the outdoor temperature needs to be reset. The outdoor temperature of that particular channel will reset and display dashes (--.-°C). After a few minutes the outdoor sensor will send a transmission to the monitor, and then the current temperature should once again be displayed on the monitor.

Installing the Monitor

The monitor can be placed on any flat surface.

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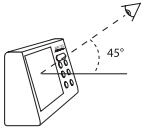
Installing the Remote Sensor

To prevent temperature interference, place the remote sensor outside away from direct sunlight, and rain. The remote sensor is designed to be splash proof; never immerse into water or expose to heavy rain.

Optimum Viewing Angle

You must always keep in mind that the LCD screen is constructed with an "optimum viewing angle". Your eye should be at a 45° angle to view the LCD screen clearly.



Calendar and Clock Setup

1. Press and hold the **SET** button. The year digit will begin to flash.
2. Press the ▲ or ▼ button to toggle to the correct year.
3. Press the **SET** button to confirm.
4. The month digit will begin to flash. Follow steps 2 and 3 to set the correct month, day, language, hour and minutes.

Language: EN – English
IT – Italian
FR – French
NE – Netherlands
ES – Spanish
DA – Denmark
GE – German

5. Right after setting the minutes, you can set the time zone. Press the ▲ or ▼ button to toggle to the time zone. Press the **SET** button to confirm.

NOTE: World time zone setting of -12 to +12

12/24 Hour Format

The default is 24 hours, press the ▲ button to toggle between 12 and 24 hours.

Setting Alarm Time

1. Press and hold the button for 3 seconds to set the alarm time. The alarm time with the "12" flashing and AL will be displayed.
2. Press the ▲ or ▼ button to set the hour.
3. Press the button to confirm.
4. The minute digits will flash, press the ▲ or ▼ button to set the minutes.
5. Press the button to confirm.
6. Press the button once to turn the alarm on/off. When the alarm is on "" will be displayed above the seconds.
7. When the alarm sounds press the **SNOOZE/LIGHT** button, the alarm will sound again in approximately 5 minutes.

NOTE: If buttons are not pressed for 8 seconds the monitor will save changes and return to regular mode.

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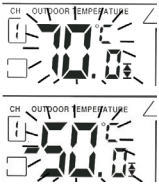
Setting Outdoor Temperature Alert

NOTE: When setting the temperature alert, the temperature will change in increments of 1.0°C or 1.8°F.



1. Press and hold the ▼ button until the temperature alert icon ▼ is displayed and the and ▲ temperature is flashing.
2. Press the ▲ or ▼ button to set the desired temperature alert maximum limit.
3. Press the ▼ button to confirm.
4. The temperature and ▼ will flash.
5. Press the ▲ or ▼ button to set the temperature alert minimum limit.
6. Press the ▼ button to confirm.

Activating the Outdoor Temperature Alert

After all the temperature alerts have been set, press the ▼ button and the temperature alert will be activated. The temperature alert icon ▼ will be displayed next to the current outdoor temperature.

De-activating the Temperature Alert

When the outdoor temperature exceeds the maximum or minimum pre-set temperature alert limits, the alarm will sound for five seconds every minute. The current outdoor temperature and ▼ will start to flash.

1. Press the **SET** button to stop the audible alert, the current outdoor temperature and ▼ will continue to flash to indicate the out of range condition.
2. To turn the temperature alert off permanently, press the ▼ button until ▼ is no longer displayed.

Maximum and Minimum Memory

1. Press the **MEM** button once to display the maximum readings. Press the **MEM** button again to display the minimum readings.
2. To clear the memory, press and hold the **MEM** button when the max or min readings are displayed. This will reset the memory to the current temperature and humidity readings being displayed on the monitor.

Backlight

1. Press the **SNOOZE/LIGHT** button once to turn on the backlight.

Moon Phase

The moon phase icon changes according to the date that is set.

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Indoor Humidity Comfort Icon

Icon	Description
☹	Icon will appear when humidity is below 40% and temperature is any value.
😐	Icon will appear when humidity is above 70% and temperature is any value.
☺	Icon will appear when humidity is between 40% to 70% and temperature is between 20°C to 28°C (68°F to 82.4°F).
	No icon will appear if humidity is between 40% to 70% and temperature is out of range of 20ºC to 28ºC (68ºF to 82.4ºF)

Specifications

Temperature Measuring Range	
Monitor	0°C to 50°C (32°F to 122°F)
Outdoor Sensor	-35°C to 60°C (-31°F to 140°F)
Temperature Checking Interval	
Monitor	15 seconds
Outdoor Sensor	35 seconds
Humidity Measuring Range	
Indoor	20% to 95%
Power Source	
Monitor	2 x AA batteries, 1.5V
Outdoor Sensor	2 x AA batteries, 1.5V (it is recommended to use Lithium batteries during the cold months)

Two Year Warranty

The Indoor/Outdoor Wireless Thermometer and Hygrometer has a 2 year warranty to be free of manufacturing defects in materials and workmanship under normal applications for 2 year of the original owner. If this product becomes inoperable due to defect and requires repair, return the product with all component pieces and proof of purchase to the address listed below. This warranty does not cover any shipping/transport costs. This warranty does not apply if the product is subject to misuse, neglect, rough handling or damage.

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Ship the unit prepaid and insured (at owners option) to:
Thermor Ltd.
Attn: Repair Department
16975 Leslie Street
Newmarket, ON L3Y 9A1

Industry Canada/FCC Statement

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

MANUFACTURED BY/FABRIQUÉ PAR :
THERMOR LTD.
16975 LESLIE STREET
NEWMARKET, ON L3Y 9A1
MADE IN CHINA/FABRIQUÉ EN CHINE