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**Instructions** 

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**Traceable®**







**Traceable WiFi Datalogging Refrigerator Freezer Thermometer**





## Product Specifications

- **Model Number:** XYZ-123
- **WiFi Enabled:** Yes
- **Probes Included:** Bullet Probe, Stainless-steel Probe
- **Cable Length:** 10 feet
- **Mounting Accessories:** Hook and loop tape, magnetic strip

## CONTROLS

-  **WiFi:** Enables WiFi capabilities.
-  **SET:** Use to set: date/time, alarm settings (if WiFi has not been configured).
-  **UP:** Adjusts the settings in the SET menu.
-  **DOWN:** Adjusts setting down in the SET menu
-  **CHANNEL SELECT:** Selects which channel to display or selects dual channel view mode to view both channels.
-  **PLAY/PAUSE:** In single channel view mode, select second line display: current time, current minimum, current maximum, alarm setting lower limit, alarm setting

higher limit.

-  **C/F**: Selects temperature unit
-  **CLEAR/CHECK**: Press to clear current min/max values and/or acknowledge alarm.

**Note:** “WiFi enabled” is indicated by the flashing WiFi symbol. It also indicates that the WiFi network needs to be configured. If the WiFi network has been configured, and the WiFi symbol flashes, it indicates an alarm of unsuccessful data transmission to the cloud server.

## DEVICE SPECIFICATIONS

- Temperature Range: –50 to 60°C (–58 to 140°F)
- Temperature sample rate: 12 seconds
- Default WiFi Transmission Frequency: 15 minutes
- Maximum number of Stored Records: 672 (7 days if set to 15-minute interval)
- Max. Stored Alarms: 100
- Battery: 4 AAA Alkaline battery

**DISPLAY MODES SINGLE CHANNEL MODE** LCD's information on channel 1 or 2.

Scroll through: current time -> current minimum -> current maximum -> alarm setting minimum -> alarm setting maximum -> current time.

- Scrolling interval: 3 seconds.
- Press the CHANNEL SELECT button to select the desired channel or dual channels.
- To pause scrolling, press PLAY/PAUSE. To resume scrolling, press PLAY/PAUSE again. To fast forward, press PLAY/PAUSE to move to the next item.
- Once the desired information is displayed, press the Play/ Pause button again to pause scrolling; otherwise second line resumes scrolling.

## DUAL CHANNEL MODE

- To view both Channel 1 and 2, Press the CHANNEL SELECT button to select dual channels.
- The CH12 symbol will appear on the display.

## SELECTING CHANNEL (PROBE)

- While the device is not in SETUP Mode, press the Channel/Select button to select a channel.
- If Channel 1 (Probe 1) is selected, the CH1 symbol will appear on the display.
- If Channel 2 (Probe 2) is selected, the CH2 symbol will appear on the display.
- If in dual channel view mode, the first line displays Channel 1, and the second line displays Channel 2. The CH12 symbol will appear on the display.

## PROBES

- **99460-05 (6501), 99466-10 (6502) Bullet Probe:** A detachable probe sensor and 10 feet of cable are supplied with the unit.
- **99460-00 (6500), 99460-05 (6501) Bottle Probe:** Probe is sealed in a miniature bottle (1 x 2½ inches) filled with a patented nontoxic glycol. Solution is GRAS (generally recognized as safe) by the FDA (Food and Drug Administration). It eliminates concerns about incidental contact with food or drinking water. The solution-filled bottle simulates the temperature of other stored liquids.
- **99460-15 (6503) Stainless-steel Probe:** A detachable probe sensor and 10 feet of cable are supplied with the unit. Hook and loop tape and magnetic strip are supplied to mount the bottle to the inside of a refrigerator/ freezer and to mount the display unit to the outside. Micro-cable permits the refrigerator doors to close on it.

**NOTE:** Plug the probe sensor into the USB jacks on top of the unit. Updated temperatures will be displayed. With the probe sensor attached, the unit displays current probe temperature and probe minimum/maximum temperatures. With the probe sensor removed, the unit simultaneously displays minimum/maximum temperatures since the memory has been cleared.

## CLEAR CURRENT MINIMUM/MAXIMUM MEMORY

1. Press CHANNEL SELECT to select the temperature probe channel to be cleared.
2. CH1 will clear Channel 1 (Probe 1); CH2 will clear Channel 2 (Probe 2), and in dual channel mode, CH12 will clear Channels 1 and 2 (Probe 1 and 2).
3. Press the CLEAR button to clear the current minimum and maximum temperature

readings.

4. Each clear of the Minimum/Maximum memory will also trigger a transmission of current reading(s) to the TraceableLIVE service, if connected. This will display in EVENT HISTORY with the label "DEVICE CHECK". DEVICE SETUP

**SCENARIO 1:** WiFi is disabled. All settings are configurable.

1. Press and hold the SET button for 3 seconds to enter the setup menu.
2. The first flashing number is the year date setting. Press the UP or DOWN arrow to set to the current year. Press the PLAY/PAUSE button to save and proceed to the next setting. Continue to set the remaining parameters (Month -> Day->Hour->Minute->Time Format (12H/24H) -> Channel 1 Minimum Alarm->Channel 1 Maximum Alarm->Channel 2 Minimum Alarm->Channel 2 Maximum Alarm ->Alarm Repost Enable/Disable -> Alarm Repost Interval Setting (if Alarm Repost is enabled). Press PLAY/PAUSE to proceed to the next parameter. Pressing PLAY/PAUSE after the last parameter is set will exit setup mode.

**SCENARIO 2:** WiFi is enabled. Alarm settings are not configurable on the device and can only be set through the TraceableLIVE cloud service interface.

1. Press and hold the SET button for 3 seconds to enter the setup menu.
2. The first flashing number is the year date setting. Press the UP or DOWN arrow to set to the current year. Press the PLAY/PAUSE button to save and proceed to the next setting.
3. Continue to set the remaining parameters (Month -> Day->Hour->Minute->Time Format (12H/24H) ->Alarm Repost Enable/Disable -> Alarm Repost Interval Setting (if Alarm Repost is enabled). Press PLAY/PAUSE to proceed to the next parameter. Pressing PLAY/PAUSE after the last parameter is set will exit setup mode.

**NOTE:** Setting time while WiFi is enabled is only intended for initial device setup. Once connected to the Traceable- LIVE service, the device time will be synchronized daily for the selected time zone in TraceableLIVE.

## **ALARM**

1. If an alarm triggers, the LCD will automatically display the alarming channel and the temperature reading, ALM, and MIN or MAX symbols flash. If the temperature is below the low alarm setting, the MIN symbol flashes; if the temperature is above the high alarm setting, the MAX symbol flashes. Audible alarm will continue beeping for 30 seconds and will beep once every 15 seconds until the alarm is acknowledged by pressing the CLEAR button.
2. If alarms trigger on both channels, the LCD will display Channel 1.
3. Use CHANNEL SELECT to select which channel to display. If the displayed channel is not alarming, the LCD will not flash, but the buzzer will remain active.
4. If an alarm is triggered, the second line of the LCD will no longer scroll, and if the device is in single-channel display mode, the alarming set point will display on the second line.
5. To clear an alarm, press the CLEAR button. The LCD will stop flashing, the buzzer will stop beeping, and the LCD second line will resume scrolling.
6. Once an alarm is triggered, the device will post the alert to the TraceableLIVE service immediately. If connectivity is currently lost, the device will store the alarm until it reconnects. Devices can store up to 100 alarm events in internal memory.

## DISPLAYING °F OR °C

- To display the temperature readings in Fahrenheit (°F) or Celsius (°C) on device, press the C/F button.
- **Note:** Changing from °C to °F in the TraceableLIVE® Cloud will not change readings on the device (see TraceableLIVE Cloud instructions).
- **Note:** Changing from °C to °F on the device will not change the readings in the TraceableLIVE® cloud.

## CONFIGURE WiFi NETWORK: AP PROVISIONING

- Press the WiFi button to enable the WiFi function. If it is the first time, the WiFi symbol will flash.
- Press and hold the WiFi button for 3 seconds until the device displays “AP”. To abort, press and hold the WiFi button.
- Press the WiFi button again, the device will display “AP WAIT” (AP WAIT).

- After 5 to 10 seconds, “AP Ready” (AP ready) will appear on the display. To abort, press and hold the CLEAR button until the device restarts.

**NOTE:** WiFi configuration will be cleared if aborted at this stage.

- Use a mobile phone or wireless-capable laptop, connect to Network ID “CC6500-XXXX”, where xxx is the last 4 digits of the device’s serial number (S/N).
- Open a web browser, type 192.168.1.1, and the setup webpage will appear:

- From the Add Profiles section, from the drop-down list, select the intended Network ID, and then input the security type, password. Please double-check this information is correct. Security type is default to WPA2.
- Or if the intended Network ID is not shown in the list, scroll to the last item of the list “Other, please specify:” and select.
- Type Network ID in the box, and then select the security type and type the password.
- Click the Add button.
- If the network is configured successfully, the device reboots and is ready to use.
- If network configuration fails, the device displays “Err”, and then pressing the CLEAR button, the device reboots. Make sure the Network ID, password, and security type are selected correctly, and try to configure the network again.
- **NOTE:** The device date/time is automatically synchronized to the mobile phone or

laptop once the setup webpage is shown.

- **NOTE:** Make sure the Network ID and password are correct; otherwise, the device will wait to connect to the router until timeout, and then “Err” is shown on the LCD.

## **CONFIGURE WiFi NETWORK: WPS PROVISIONING**

- Press the WiFi button to enable the WiFi function. If it is the first time, the WiFi symbol flashes.
- Press and hold the WiFi button for 3s till the device displays “AP”;
- Press the UP or DOWN button to scroll to WPS. “WPS” is displayed on the LCD.
- Press and release the WiFi button, the device displays “AP WAIT”.
- Wait until LCD displays “WPS Ready” (WPS ready).
- Press the WPS button on the router that the device is intended to connect to. Please refer to the router’s manual for the WPS function.
- If the network is configured successfully, the device reboots and is ready to use.

**NOTE:** The router has to support WPS, and the function has to be enabled. The device supports only PUSH push-button method. Pin Code Method is NOT supported.

**NOTE:** Using WPS provisioning will not update the device’s date/time.

## **HOW TO CONFIGURE WiFi NETWORK: SMARTCONFIG PROVISIONING**

- Press the WiFi button to enable the WiFi function. If it is the first time, the WiFi symbol flashes.
- Press and hold the WiFi button for 3s till the device displays “AP”;
- Press the UP or DOWN button to scroll to SmartConfig. “Smart” is displayed on the LCD.
- Press and release the WiFi button, the device displays “AP WAIT”;
- Wait till LCDs “Smart ready” (SMART ready);
- On TI’s WiFi Starter App, enter the Network ID and password, and press the Start button.
- If the network is configured successfully, the device reboots and is ready to use.

**NOTE:** This method requires the user to install the TI WiFi Starter app for iOS or Android on mobile devices.

**NOTE:** Using SmartConfig provisioning will not update the device's date/time.

## **DATA MEMORY**

1. The device is capable of storing 7 days of data if 15 minute logging interval is set.
2. If data transmission fails, data will be stored in data memory. Stored data will be transmitted automatically on the next successful transmission.
3. If the WiFi network has been configured, and the iFi connection is lost, data will be stored in data memory at the user-defined logging interval.
4. If the WiFi network has not been configured, data will not be stored in data memory.
5. Stored data in data memory cannot be cleared by the user. It can only be cleared by a successful data transmission.

## **ALARM REPOST**

- If an alarm triggers and stays in triggered condition, after a user-defined period, the device will repost the alarm to the cloud server even if a user has acknowledged the alarm.
- Alarm Repost feature is disabled by default. To enable, see DEVICE SETUP.
- Alarm Repost period is set to 60 minutes by default; a user can change the interval between 5 minutes to 8 hours (5-minute increments).

## **DISPLAY MESSAGES**


If no buttons are pressed and — -.- — appears on the display, this indicates that the temperature being measured is outside of the temperature range of the unit, or that the probe is disconnected or damaged.

## **BENCH STAND**

The unit is supplied with a bench stand located on the back. To use the bench stand, locate the small opening at the bottom back of the unit. Place your fingernail into the opening and flip the stand out. To close the stand, simply snap it shut.

## **LOW BATTERY POWER INDICATOR**

Unit is supplied with 4 AAA alkaline batteries. If the battery power drops to 20% or lower,

a low battery symbol  will appear on the device display, and an alert will be sent via TraceableLIVE.

## **ALL OPERATIONAL DIFFICULTIES**

If this thermometer does not function properly for any reason, please replace the battery with a new high-quality battery (see “Battery Replacement” section). Low battery power can occasionally cause any number of “apparent” operational difficulties. Replacing the battery with a new, fresh battery will solve most difficulties. If the voltage of the battery becomes low, the °C and °F symbols will flash.

## **BATTERY REPLACEMENT**

Erratic readings, a faint display, or no display are all indications that the battery must be replaced. Slide the battery cover toward the end of the unit. Remove the exhausted battery and replace it with an AAA alkaline battery. Replace the battery cover.

## **REGULATORY INFORMATION**

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.

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. Hereby, Control Company declares that this digital thermometer is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. This device complies with Industry Canada licenceexempt RSS standard(s). 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.

**NOTE:** THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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## Frequently Asked Questions

How do I know if WiFi is enabled?

WiFi enabled is indicated by the flashing WiFi symbol on the device's display.

What does the CH12 symbol indicate?

The CH12 symbol indicates that both Channel 1 and Channel 2 are being monitored on the device.

## Documents / Resources



## [Traceable WiFi Datalogging Refrigerator Freezer Thermometer \[pdf\]](#) Instructions

6500, 6501, 6502, WiFi Datalogging Refrigerator Freezer Thermometer, Refrigerator Freezer Thermometer, Freezer Thermometer, Thermometer

## References

- [User Manual](#)

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🔑 6500, 6501, 6502, Freezer Thermometer, Refrigerator Freezer Thermometer, Thermometer, TRACEABLE, WiFi Datalogging Refrigerator Freezer Thermometer

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