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**TraceableLIVE 6600 Ethernet Data Logging  
Thermometers User Manual**

**TraceableLIVE®  
ETHERNET  
DATALOGGING  
THERMOMETER  
WITH REMOTE  
NOTIFICATION  
INSTRUCTIONS**

**WARRANTY, SERVICE, OR RECALIBRATION**

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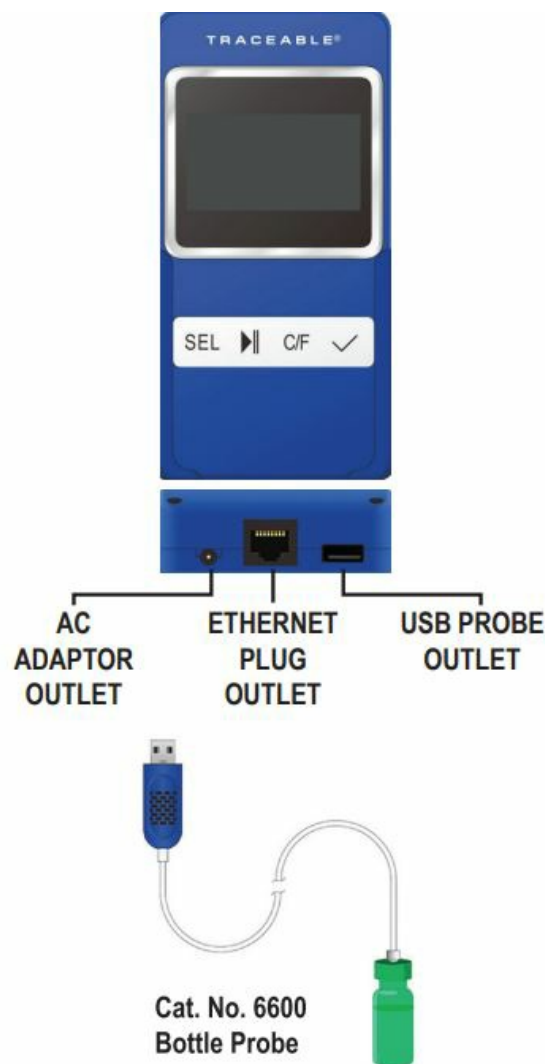
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## **CONTROLS**



**SEL** Display probe calibration expiration date.

**Play/Pause** : Select second line display: current minimum, current maximum, alarm setting lower limit, alarm setting higher limit.

**C/F** C/F: Select temperature unit

**✓** CLEAR: Press and release, clear current min/max values.

## DEVICE SPECIFICATIONS:

- Cat. No. 6600 Temperature Range:  
–50 to 60°C (–58 to 140°F)
- Cat. No. 6601 Temperature Range:  
–90 to 105°C (–130 to 221°F)
- Temperature sample rate: 6 seconds
- Maximum number of Stored Records: 672 (7 days if set to 15 minutes interval)
- Default Data Transmission Frequency: 15 minutes
- Max. Stored Alarms: 100

- Battery: 3 AAA Alkaline battery
- Cable Length: 10 feet
- Power Supply: Input: 100 ~ 240 V, 50/60Hz, 0.3A



## PROBES

6600 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.

6601 Stainless-steel Probe: A detachable probe sensor and 10 feet of cable are supplied with the unit. Sensor Type: RTD

CALIBRATION DATA ARE STORED IN PROBE. WHEN CALIBRATION IS DUE,  
REPLACE PROBE OR  
SEND IN THE PROBE FOR RE-CALIBRATION.

## DEVICE POWER SUPPLY

Device is powered by external AC Adaptor. If AC Adaptor is plugged in,  appears on LCD. If AC Adaptor is removed,  disappears from LCD.

In case of power outage, device will automatically switch to backup battery.

While device is powered by backup battery, data will be stored in device's internal memory, and will not be posted to cloud server. Once external AC Adaptor resumes to power the device, stored data will be posted to cloud server.

If backup battery gets low,  appears on LCD.




## LCD BACKLIGHT

To help better viewing LCD, device's LCD is equipped with LED backlight;




Anytime a button is pressed, backlight is turned on, and if no button is pressed, backlight will be turned off after 2 minutes if an AC Adaptor is plugged in. If device is powered by backup battery, backlight will be turned off after 30 seconds if no button is pressed.

If backlight is off, pressing any button will turn on backlight. Device will not execute assigned function of that button. Once backlight is on, press a button and device will execute assigned function.



## NETWORK

- Device connects to network through RJ-45 ethernet port.
- If device is connected to network,  will appear on display; if device is disconnected from network,  will disappear.
- If data fails to post to cloud server,  will flash.
- Device is connected to network, which means device has an active link to cloud server.
- Device is not connected to network, which means device does not have an active link to cloud server even though device is connected to a router.

## SECOND LINE DISPLAY ON LCD

- Second Line on LCD displays information in a scrolling way in the following order: current minimum -> current maximum -> alarm setting minimum -> alarm setting maximum -> current minimum.
- The scrolling interval is set to 3 seconds.
- To pause scrolling, press  button. To resume scrolling, press  button again. To fast move forward, press  button to move to next item. User may press button to move forward.
- Once user fast move to desired information, press button one more time to pause scrolling, otherwise second line resumes scrolling.

## DISPLAY PROBE CALIBRATION EXPIRATION DATE AND S/N








1. While in normal mode, press SEL button once.
2. Sensor calibration expiration date is displayed on LCD.
3. Press  button within 10 seconds, the probe's serial number will display on LCD, otherwise LCD will return to normal display.
4. Wait for 10 seconds, or press  button to go back to normal display.

## CLEAR CURRENT MIN/MAX



1. Press  button to clear current Min/Max readings.

2. Min/Max value are not stored to internal memory.
3. An Alarm event will be posted to cloud server immediately.

## DISPLAY DEVICE'S MAC ADDRESS AND IP ADDRESS

1. Check if AC Adaptor is plugged in; if not, plug in AC Adaptor.
2. While the device is in normal mode, press and hold SEL and  simultaneously for 3 seconds.
3. If AC Adaptor is not plugged in, LCD displays "no AC". In 2 seconds, device goes back to normal display.
4. If AC Adaptor is plugged in, first 4 bytes of MAC address are displayed on LCD.
5. Press  once to scroll down to next 2 bytes of MAC address.
6. Press  once. If device is connected to network, the first 2 numbers of IP address are displayed on LCD; If device is not connected to network, 000.000 will be displayed on LCD.
7. Press  again to display next 2 numbers of IP address.
8. Wait 10 seconds,  or  press or button to go back to normal display.
9. While displaying MAC or IP address, if  button has not been pressed for 10 seconds, device goes back to normal display.
10. If error occurs while acquiring MAC or IP address, LCD displays "Err".


## DISPLAY DEVICE'S FIRMWARE VERSION

- While the device is in normal mode, press and hold C/F and  simultaneously for about 3 seconds.
- First line on LCD will display "rxx" where xx stands for firmware version;
- Second line on LCD will display MCU restart cause "Cxx" where xx stands for restart cause code;
- Wait 10 seconds, or press  button to exit to go back to normal display.

## DATA TRANSMISSION TO CLOUD SERVER

- Once device is connected to network, Data is transmitted over ethernet in a user-defined intervals (through the server during device setup process).


Default transmission interval is 15 minutes. The interval cannot be changed at the device.

- If data transmission fails for the first time,  symbol will flash.
- Data can be stored to internal memory up to 7 days in an interval of 15 minutes.
- Once memory is full, new data will overwrite earliest data.
- Memory cannot be cleared by user, and it can only be cleared by successful data transmission to cloud server.


Note: If all two transmission retrials (10s interval, total 3 transmission trials) fail, it is counted as one transmission failure. Note: If data transmission fails, during the period of retrials, the device will not update temperature reading and time stamp so that the data and time stamp will be the same during retrials. The retrials take about 30 seconds.

Note: While device is powered by backup battery, data will not be posted to cloud server. However, new data will continue to be stored in internal memory.

## ALARM

- If alarm is triggered, temperature reading, and LOW ALM or HI ALM symbol flashes. An audible alarm will sound. If temperature is out of lower alarm setting, LOW ALM symbol flashes; if temperature is out of upper alarm setting, HI ALM symbol flashes.
- If an alarm is triggered, second line on LCD will freeze scrolling.
- To clear an alarm, press  button. LCD will stop flashing; buzzer will stop beeping. The second line on LCD will resume scrolling. An alarm event will be posted to cloud server immediately.
- Once an alarm is triggered, the device will post to the server immediately. If failed after 3 transmissions, alarm will be stored to internal memory.

## LOW BATTERY ALARM

- The device detects battery level every 2 hours, and if battery level is below a predefined threshold, low battery notification is user-adjustable,  symbol appears on LCD, and BATT\_LOW alarm is posted to server immediately if device is connected to network.
- Once the BATT\_LOW flag is set, BATT\_LOW alarm will be posted to the server every 3 days until battery is replaced with new ones.




- Even if device is always powered by AC adaptor, it is recommended to replace batteries yearly.

## **DEVICE HOLDER**

Unit is supplied with a holder that may be affixed to any magnetic surface or to a wall with screws (screws not supplied).

## **LOW BATTERY POWER INDICATOR**

Unit is supplied with 3 AAA alkaline backup batteries. If the battery power drops to 20% or lower a low battery symbol  will appear on 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 °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 with 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 licence exempt 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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## **Documents / Resources**



[TraceableLIVE 6600 Ethernet Data Logging Thermometers \[pdf\]](#) User Manual  
6601, 6602, 6603, 6600 Ethernet Data Logging Thermometers, 6600, Ethernet Data Logging Thermometers, Data Logging Thermometers, Logging Thermometers, Thermometers

## References

- [User Manual](#)

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6600, 6600 Ethernet Data Logging Thermometers, 6601, 6602, 6603, Data Logging Thermometers, Ethernet Data Logging Thermometers, Logging Thermometers, Thermometers, Traceablelive

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