



TRACEABLE CC653X Temperature Bluetooth Data Logger Instructions

September 2,
2025



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DATALOGGER INSTRUCTIONS



IMPORTANT NOTICE

You MUST download one of the Mobile Apps below to retrieve data and configure

device

Bluetooth ONLY



Download TraceableGO™ App

Bluetooth + Cloud Data Storage



TraceableLIVE® Subscription REQUIRED

NOW that one of the apps below have been installed on your mobile device

TraceableGO comes ready to use out of the box.

TraceableGO™ App Free Download



FREE

Features

✓	<p>Configure datalogger:</p> <ul style="list-style-type: none"> • Set Alarm • Change Logging Interval • Toggle between °C/°F • Start/Stop Options • Memory Wrap
✓	Export, Email and Save PDF to Mobile Device
✗	UNLIMITED CLOUD DATA STORAGE
✗	Data download to CSV, or Secured PDF
✗	Graphical UI to analyze data
✗	Summary data display: Min/Max, Kinetic Mean, Time in Alarm
✗	Storage of trip parameters
✗	21 CFR 11 Compliance

<div>TraceableLIVE® App Free Download</div> <div>\$30/month</div> <div>Features</div>	
✓	<p>Configure datalogger:</p> <ul style="list-style-type: none"> • Set Alarm • Change Logging Interval • Toggle between °C/°F • Start/Stop Options • Memory Wrap




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✓	Storage of trip parameters
✓	21 CFR 11 Compliance

CONFIGURE DEVICE

NOTE: To configure device either TraceableGO™ or TraceableLIVE® Apps must be downloaded to a mobile device.

ENABLE BLUETOOTH

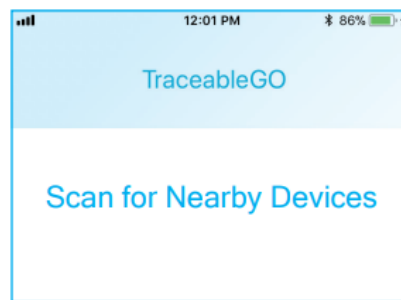
1. Quick press twice START/STOP to enable Bluetooth, and Bluetooth LCD symbol appears.
2. Device starts to advertise to be found, and to be connected. Device Name shown on TraceableGO™ App discovered list looks like CC653X-xxxx, where “CC653X” indicates model number and “-xxxx” is last 4 digits of device serial number.
3. If no connection has been made for **ONE MINUTE**, Bluetooth will be disabled to save battery life, and Bluetooth LCD symbol  disappears, or quick press twice again to disable Bluetooth.

TO VIEW PRE-CONFIGURED SETTINGS

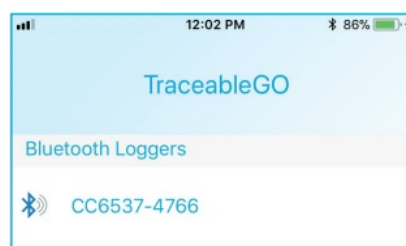
1. Enable Bluetooth on device (see above).
2. Open TraceableGO™ or TraceableLIVE® App on any bluetooth enabled mobile device.

Note: Mobile device must have Bluetooth enabled to receive signal. To enable Bluetooth on a mobile device see mobile device settings.

3. Use TraceableGO™ or TraceableLIVE® App to connect to device. Once the app is open it will begin searching for devices to connect to.

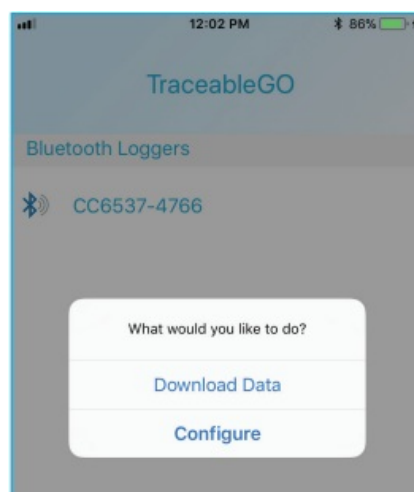


A list of available Dataloggers will appear.



Note: TraceableGO Bluetooth Dataloggers are serialized and each logger name will match the sticker located on the side of the unit.

4. Once device is selected select Configure.

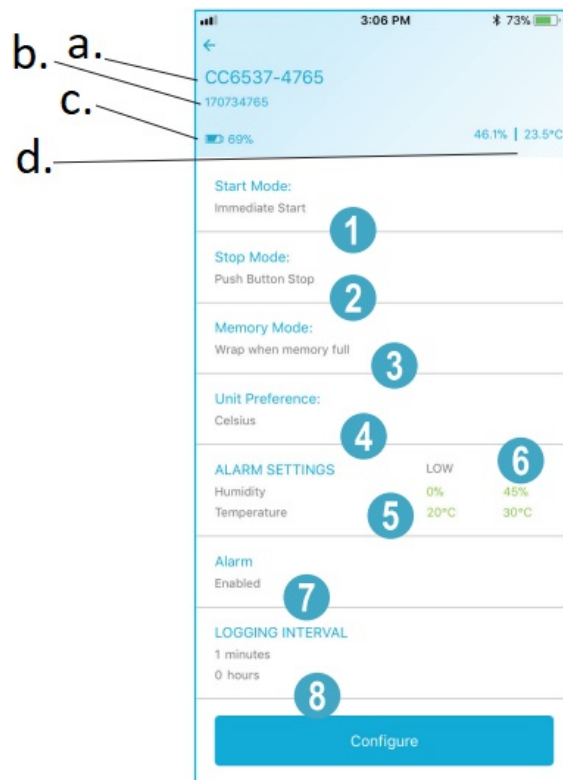


5. The following parameters are configured through App: START Mode, STOP Mode, ALARM Enable/Disable, Celsius/Fahrenheit, Memory Mode, Data Logging Interval, Alarm Setting.

6. TraceableGO™ comes pre-programmed. To view current settings, tap on configure

once device is selected in App.

7. Device comes pre-configured as shown below:



a. **Device Name**

b. **Device Serial Number**

c. **Current Battery Status**

d. **Current Temperature and/or Humidity Readings**

PRE-CONFIGURED DEVICE SETTINGS

1. START Mode: Push Start
2. STOP Mode: Push Button Stop
3. Memory Mode: Wrap when Memory is Full
4. Unit Preferences: °C
5. Alarm Setting Alarm Low:
TAP ON VALUE TO CHANGE
 - Temperature: 2°C (6535 only)
 - Temperature: 20°C (6537 only)
 - Humidity: 25% RH (6537 only)
6. Alarm Setting High Alarm:

TAP ON VALUE TO CHANGE

- Temperature: 8°C (6535 only)
- Temperature: 30°C (6537 only)
- Humidity: 75% RH (6537 only)

7. Alarm Enable/Disable: Enabled
8. Data Logging Interval: 5 minutes
9. Date/Time is also set to current to central time (Automatically updates when connected to mobile device).

Tap Configure to change factory settings

1. START Mode

Immediate Start: Once device is configured it will begin Datalogging.

Push Button: Press START/STOP Button to begin Datalogging.

Delayed: Select number of Hours, Minutes and Seconds when device is to begin Datalogging.

2. STOP Mode

Never: Device will never stop Datalogging.

Push Button: Press **START/STOP** Button to Stop Datalogging.

3. Memory Mode

Wrap When Full: Once memory is full, oldest data points will be overwritten with new data points.

Stop When Full: Device will stop recording when Memory is Full 64K (65,536) data points, 7.5 months on 5-minute logging interval.

4. Unit Preferences

°F: Select Fahrenheit

°C: Select Celsius

5. Alarm Setting Alarm Low: TAP ON VALUE TO CHANGE

- **Temperature:** Set LOWEST Temperature before an alarm is triggered.
- **Humidity (6537 only):** Set LOWEST Relative Humidity before an alarm is triggered.

6. Alarm Setting High Alarm: TAP ON VALUE TO CHANGE

- **Temperature:** Set HIGHEST Temperature before an alarm is triggered.
- **Humidity (6537 only):** Set HIGHEST Relative Humidity value before an alarm is triggered.

7. Alarm Enable/Disable

Enabled: Alarm is on.

Disabled: Alarm is off.

8. Data Logging Interval

Slide to desired Logging Interval.

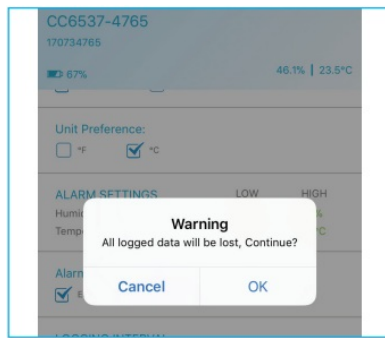
9. Save Configurations: Saves the current settings.

NOTE: Saving a Configuration will delete all data on device.

Once device has been configured, device enters **STANDBY Mode**.

Date/Time is also set to current to central time (Automatically updates when connected to mobile device).

The screenshot shows a mobile application interface for configuring a device. At the top, the status bar shows the time as 3:08 PM and battery level at 74%. The app header displays the device ID 'CC6537-4765' and a secondary ID '170734765'. Below this, a battery icon shows 69% and a status bar indicates 46.1% humidity and 23.5°C temperature. The main settings area includes: 'Start Mode' with 'Immediate' selected (callout 1); 'Stop Mode' with 'Push Button' selected (callout 2); 'Memory Mode' with 'Wrap When Full' selected (callout 3); 'Unit Preference' with '°C' selected (callout 4); 'ALARM SETTINGS' with 'Humidity' set to 0% (LOW) and 45% (HIGH) (callout 5), and 'Temperature' set to -20°C (LOW) and 24°C (HIGH) (callout 6); 'Alarm' with 'Enable' selected (callout 7); 'LOGGING INTERVAL' set to 1 minutes (callout 8); and a 'Save Configurations' button at the bottom (callout 9).



HOW TO DOWNLOAD DATA TO MOBILE DEVICE

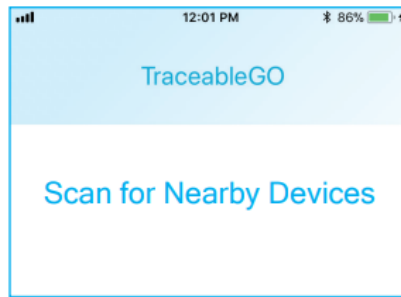
NOTE: To download data either TraceableGO™ or TraceableLIVE Apps must be downloaded to a mobile device.

ENABLE BLUETOOTH

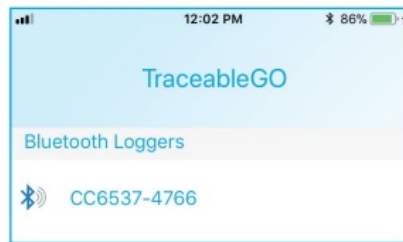
1. Quick press twice START/STOP to enable Bluetooth, and Bluetooth LCD symbol appears.
2. Device starts to advertise to be found, and to be connected. Device Name shown on TraceableGO™ App discovered list looks like CC653X-xxxx, where “CC653X” indicates model number and “-xxxx” is last 4 digits of device serial number.
3. If no connection has been made for **ONE MINUTE**, Bluetooth will be disabled to save battery life, and Bluetooth LCD symbol ✖ disappears, or quick press twice again to disable Bluetooth.

TO DOWNLOAD RECORDED DATA

1. Device must be stopped. Enable Bluetooth on device (see above).
2. Open TraceableGO™ or TraceableLIVE® App on any bluetooth enabled mobile device. **Note:** Mobile device must have Bluetooth enabled to receive signal. To enable Bluetooth on a mobile device see mobile device settings.
3. Use TraceableGO™ or TraceableLIVE® App to connect to device. Once the app is open it will begin searching for devices to connect to.

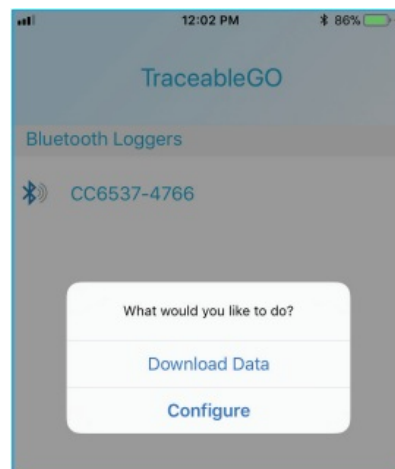


A list of available Dataloggers will appear.

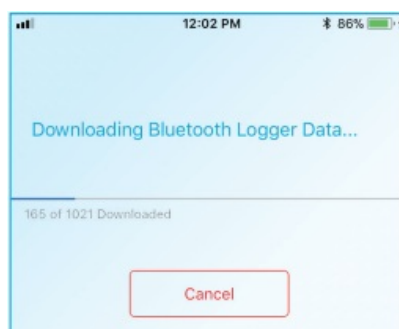


Note: TraceableGO™ Bluetooth Dataloggers are serialized and each logger name will match the sticker located on the side of the unit.

4. Once device is selected select Download Data.

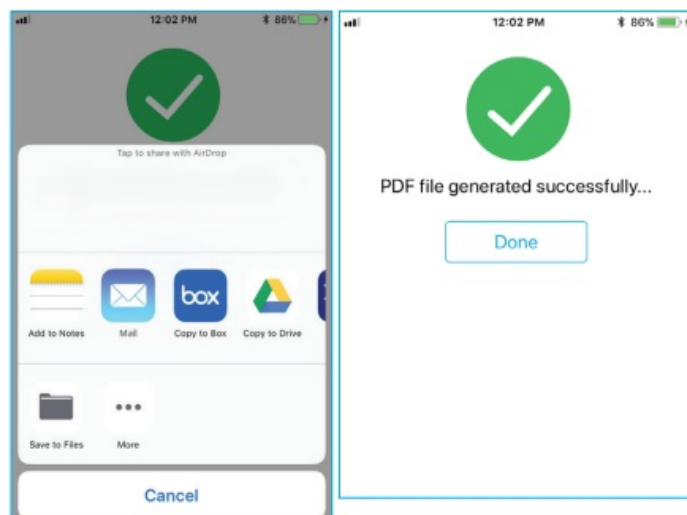


5. App will begin extracting the data from TraceableGO™ Device.



6. Once data download is complete, mobile device will display options how to send PDF

file, or CSV file (TraceableLIVE only). Tap Done and download is complete.



SPECIFICATIONS



Cat. No. 6535



Cat. No. 6538



Cat. No. 6537

TEMPERATURE

6535: Ambient Range: -20.0 to 70.0°C (-4.0 to 158.0°F)

6536/6538 Probe Range: -50.0 to 70.0°C (-58.0 to 158.0°F)

6539 Probe Range: -90.00 to 100.00°C (-130.00 to 212.00°F)

Resolution: 0.1°C

Accuracy:

6535: ±0.4°C between -10 and 70°C, otherwise ±0.5°C

6536/6538: ±0.3°C

6539: ±0.2°C

RELATIVE HUMIDITY & TEMPERATURE

Temperature—

Ambient Range: -20.0 to 70.0°C (-4.0 to 158.0°F)

Resolution: 0.1°C

Accuracy: ±0.4°C between -10 and 70°C, otherwise ±0.5°C

Relative Humidity—

Ambient Range: 0% to 95%RH, non-condensing

Resolution: 0.1% RH

Accuracy: ±3% RH between 5 to 75%, otherwise ±5% RH

EXTERNAL PROBE

6536 Bullet Probe: Standard plastic probe sensor with cable. Designed for use in air and liquids, the sensor and cable may be completely immersed. Probe size: 3/16" diameter, 4/5" length; 10 foot cable







6538 Bottle Probe: Designed to simulate the temperature of stored liquids, use in transportation coolers, refrigerators and freezers. Bottle probes are filled with a patented nontoxic glycol solution that is GRAS (Generally Recognized As Safe) by the FDA (Food and Drug Administration) eliminating concerns about incidental contact with food or drinking water. The included micro-thin probe cable permits refrigerator/freezer doors to close on it. (Do not immerse bottle probes in liquid). Probe size: 1 x 2-1/2 inches; 10 foot cable.

6539 Stainless-Steel/Platinum Probe: Detachable stainless steel 316 Probe with Platinum Sensor and 9 feet of cable are supplied with the unit. Probe has a diameter of 1/8-inch, stem length of 6-1/4 inches, overall length of 9 inches.

Battery: 2 AAA Alkaline batteries (3.0V)

Dimension: L x H x D: 3.5 x 2 x 0.79" (89 x 51 x 20 mm)

Battery Level Indication:

Battery level	LCD symbol
≥ 80% (2.78V)	
≥ 60% (2.56V), < 80%	
≥ 40% (2.34V), < 60%	
≥ 20% (2.12V), < 40%	
≥ 10% (2.01V), < 20%	
< 10% Flashing	

Note: Battery level is updated every 5 minutes.

Note: Once battery level drops to below 10%, device may not work properly. Replace batteries immediately.

Note: When replacing batteries, after removing the old batteries, wait 10 seconds before inserting new batteries. Otherwise, Bluetooth may not work properly.

MEASUREMENT READING UPDATE FREQUENCY

Temperature and Humidity: 5 seconds;

Note: If a reading is out of operating range, corresponding location on LCD will display '—.' and such out of range reading will not trigger alarm.

DATA LOGGING FREQUENCY:

5 min by default, user-adjustable between 1 minute and 12 hours with 1 minute step.

DATA STORAGE CAPACITY

Alarm: Most recent 90 Alarm events

Data: 64K (65536) data points, 7.5 months on 5-minute logging interval

DEVICE OPERATING MODES

- IDLE Mode: First time battery inserted, and device has not been configured
- STANDBY Mode: Device has been configured, but not started;
- RUN Mode: Device starts to measure and log data.
- STOP Mode: Device stops from RUN Mode. In STOP Mode, device does not update measurements or log data, and the last measurements are displayed.

VIEW CURRENT READING

1. Temperature ONLY unit: Current reading, minimum/maximum reading, run time/alarm time toggling, Memory mode are shown on LCD.
2. Humidity and Temperature unit: Current temperature/humidity reading toggling every 5 seconds, minimum/maximum reading since last clearing, run time/alarm time, Memory mode are shown on LCD.

VIEW CURRENT MIN/MAX

Temperature ONLY unit: Current temperature Min/Max values are displayed on LCD.

Humidity and Temperature unit: Current temperature/humidity Min/Max values are toggled display.


Note: Every time device is configured, or resumes to run from STOP Mode, Min/Max values are reset.

VIEWING RUN TIME/ALARM TIME

Run Time/Alarm Time is toggled to display on LCD. If Run Time is displayed, LCD symbol **RUN TIME** appears; if Alarm Time is displayed, LCD symbol **ALARM TIME** appears.

Note: Alarm Time is accumulated for both Low Alarm and Hi Alarm for each channel (temperature, humidity).

MEMORY

If Memory Mode is set to WRAP WHEN FULL,  appears on LCD; If Memory Mode is set to STOP WHEN FULL, **MEM** appears on LCD.

ALARM

1. Once an alarm is triggered by any of temperature, humidity out of set alarm range, LCD symbol **LOW ALM** and/or **HI ALM** starts to flash. An Alarm Event will be logged.
2. Pressing **START/STOP** once will clear alarm, LCD symbol stops flashing. An Alarm Acknowledge Event will be logged.
3. If temperature, or humidity falls back to normal range, an Alarm Event will be logged. If any of temperature, humidity measurement goes back to out of alarm range, alarm will be triggered again.
4. If device's START Mode is configured as **PUSH BUTTON TO START** (default), device LCD displays 'push to start'. Press and hold **START/STOP** until LCD symbol appears. Device enters RUN Mode. If device's START Mode is configured as IMMEDIATE

START, device enters RUN Mode immediately. If device's START Mode is configured as DELAYED TIME START, delayed start time set by user is counting down on device LCD. Once the counting time reaches 0, device enters RUN Mode.

5. If in **RUN Mode**, LCD symbol **RUN** appears, and logs data at user-defined interval. If STOP Mode is configured as PUSH BUTTON TO STOP, press and hold **START/STOP** until LCD symbol **STOP** appears. Device enters STOP Mode. If STOP Mode is configured as NEVER STOP, device will ignore button press, and will stop when memory is full if Memory Mode is set to STOP WHEN FULL, or will stop when TraceableGO™ App is connected to device and downloads the data.
6. If in STOP Mode, press and hold **START/STOP** until LCD symbol **RUN** appears. Device enters RUN Mode and resumes to log data at current setting. Anytime device resumes to log data from STOP Mode, Min/Max values are reset.

Note: If device in STOP Mode, START Mode will be set to PUSH BUTTON TO START regardless of previous Start Mode Setting. If Delayed Start Mode is needed while device in STOP Mode, device must be re-configured.

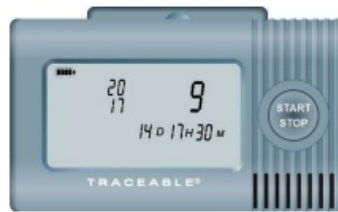
Note: While device is connected to TraceableGO™ App, once Device has received command from App to upload data to App, device will stop logging data and enter STOP Mode if it is still in RUN mode.

VIEW MEMORY USAGE, CURRENT DATE/TIME, DEVICE'S SERIAL NUMBER

1. Press and release **START/STOP** button
2. Memory usage in percentage is shown on LCD. The percentage indicates how much internal data memory storage has been used;
3. Number of days, hours, minutes left till memory is full are also displayed on the second line;




4. Within 10 seconds, press **START/STOP** again, current date/time is displayed on device LCD. The following figure shows 9/14/2017, 17:30



5. Within 10 seconds, press **START/STOP** again, device S/N will be displayed on LCD.



6. To return to normal working status, press **START/STOP** again, or wait for 10 seconds and device will automatically go back to normal working status.

Note: If Memory Mode is set to WRAP WHEN FULL: LCD symbol  starts to flash on the display when the memory is full. Once memory is full, the oldest data points will be overwritten with new data points.

If Memory Mode is set to STOP WHEN FULL: LCD symbol **MEM** starts to flash on the display when the memory is 95% full. Once memory is full, the device will stop logging new data points.

CLEAR DATA MEMORY STORAGE

1. Data points stored in device internal storage can only be cleared through App or battery removal.
2. Each time device is configured, all stored data points will be cleared.
3. Run Time/Alarm Time are also reset.

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, Traceable Products, 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.

WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

TRACEABLE® PRODUCTS

12554 Old Galveston Rd. Suite B230 • Webster, Texas 77598 USA

Ph. 281 482-1714 • Fax 281 482-9448

E-mail support@traceable.com • www.traceable.com

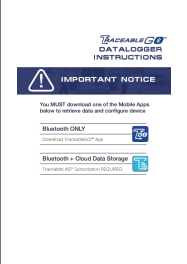
Traceable® Products are ISO 9001:2015 Quality-Certified by DNV and ISO/IEC 17025:2017 accredited as a Calibration Laboratory by A2LA.



TraceableLIVE® and TraceableGO™ are registered trademark/trademarks of Cole-Parmer.

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Documents / Resources

	TRACEABLE CC653X Temperature Bluetooth Data Logger [pdf] Instructions CC653X, CC653X Temperature Bluetooth Data Logger, Temperature Bluetooth Data Logger, Bluetooth Data Logger, Data Logger
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References

- [User Manual](#)

■ TRACEABLE

🔍 Bluetooth Data Logger, CC653X, CC653X Temperature Bluetooth Data Logger, Data Logger, Temperature Bluetooth Data Logger, TRACEABLE

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