

Thermo Scientific -86°C freezer quick reference

Initial Start Up

1. Plug the freezer into the power outlet, making sure that the supply voltage matches the data plate.
2. Turn the power switch in back of the freezer, on the bottom right, to the ON position.

When the freezer is powered up, you will see a Thermo Scientific logo displayed on the front screen for about 25 seconds. Then, the start up wizard will guide you through the start up steps.

Before Loading Samples

The freezer should operate a minimum of 12 hours before loading samples.

Operating Modes

Security mode (settable at start up only)

- **Fully Accessible** (default): All users have access to all freezer settings.
- **Secured:** Access to freezer settings is restricted by user name and password. Administrators can change all settings and add or delete users. Users can view limited information.

Refrigeration mode (settable at any time)

- **High-Performance** (default): Provides optimum temperature uniformity.
- **Energy-Savings:** For users who do not require maximum temperature uniformity. It can save up to 15% in energy usage.

Data Download

Freezer records up to 15 years of temperature and event data. Download data to a flash drive via the USB port.

Temperature Data:

1. Insert a USB flash drive into the USB port.
2. Press the download icon at the lower left of the Expanded Graph screen.
3. Specify date range.
4. Press USB icon.

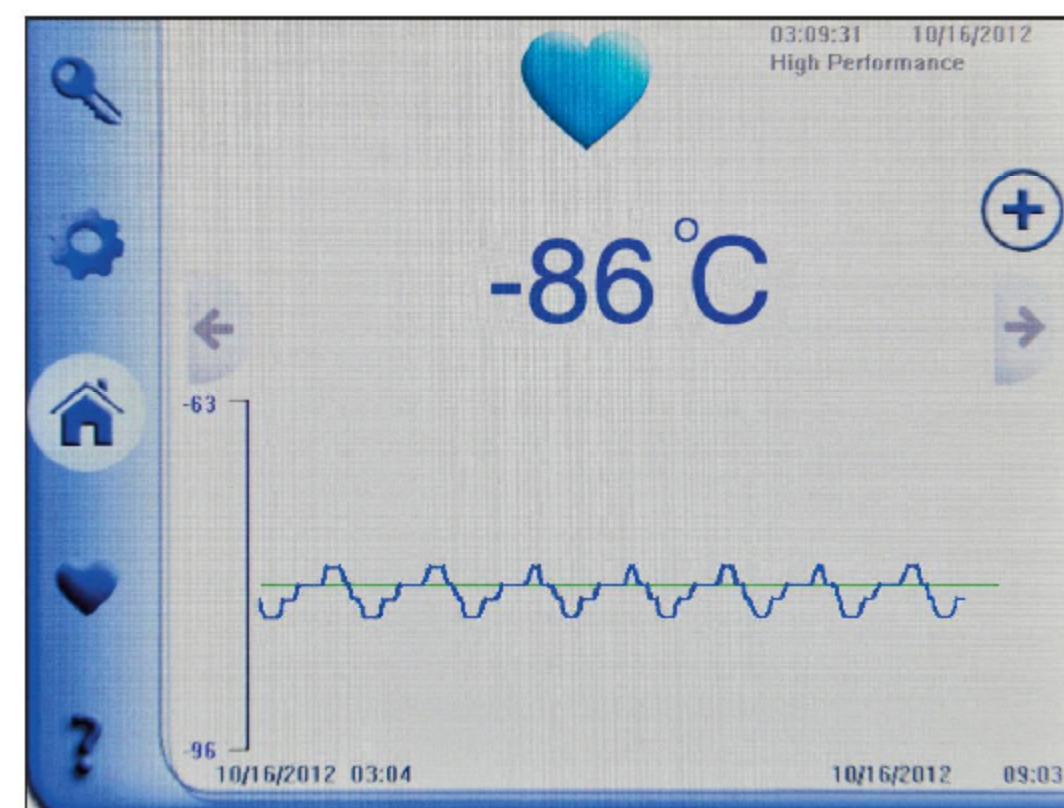
Event Log:

1. Insert a USB flash drive into the USB port.
2. Press the download icon at the lower left of the Event Log screen.
3. Specify date range.
4. Press USB icon.

Access Card Option

For units with the access card option installed:

1. To open the freezer door, an access card must be programmed.
2. Remove the access card from the bag labeled **do not throw away**.
3. Start up the freezer.
4. Program the card by pressing manage users in Settings Screen



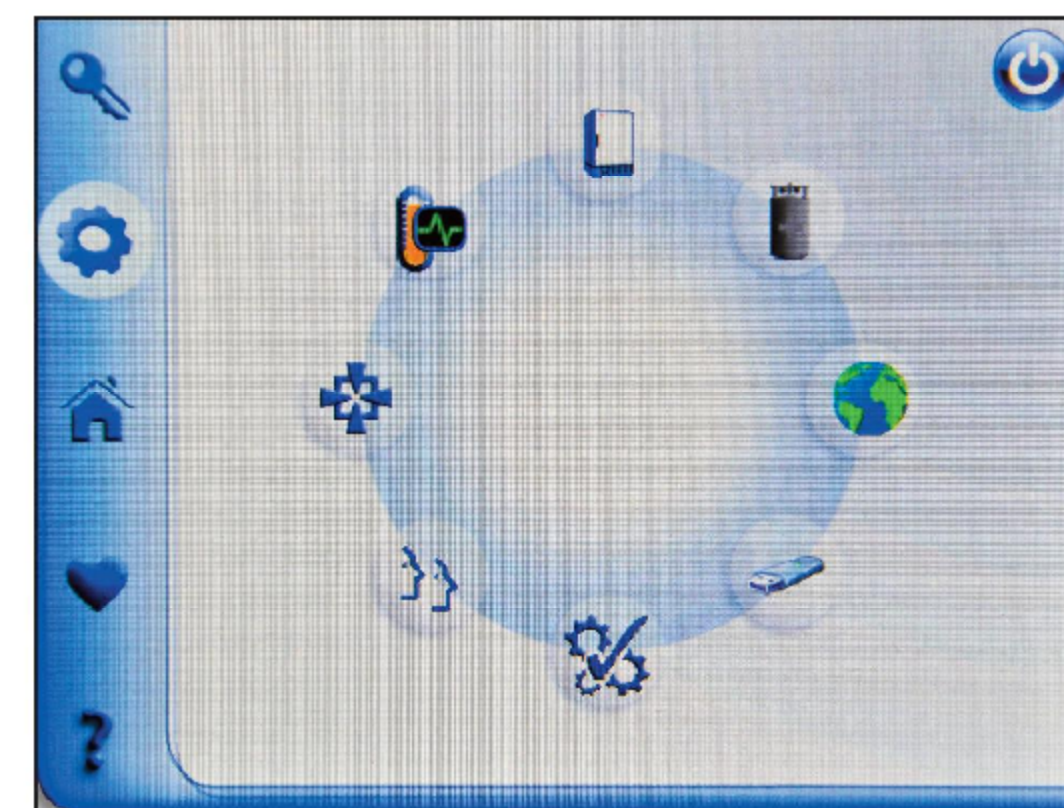
Freezer Health Status – Home

- **Access Alarms and Event Information**
- **Log In/Out:** This function is only active when running in secure mode.
- **Access the Settings Screen.**
- **Graphic Display:** Temperature set point in green, actual temperature in blue. Shows the last four hours of data (default). Use scroll arrows to display the last 10 days of data.
- **Help:** Access user manuals, help files and serial number.
- **Access Expanded Screen Graph**
- **Door Opening**
- **Power Loss**
- **Multiple Events:** Press heart icon for details.

For Additional Support:

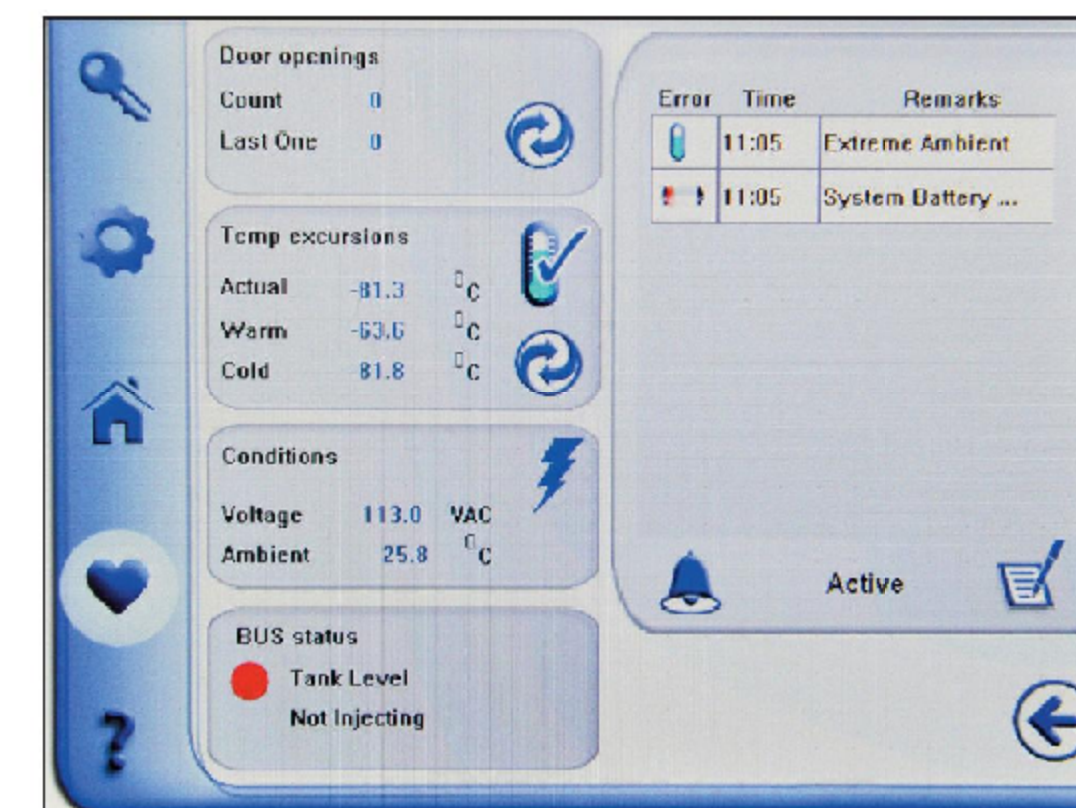
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Settings Screen

- Access the Settings Screen by pressing the gear icon on the main toolbar.
- Access freezer and alarm set points.
- Configure optional backup system.
- Set date, time, language display preferences.
- Upload and download configuration files.
- Set display and alarm preferences.
- Manage users. In secured mode operation, add, delete and modify user profiles; manage card access if the option is installed.
- Calibrate the screen.
- Perform warm alarm test.
- Turn freezer off.



Health Status

Access the Health Status Screen by pressing the heart icon.
 ♥ = o.k. ♥ = alert ♥ = alarm

Alarms

Active alarms and unacknowledged past events are displayed in the alarm list at the right of the screen.

- Press to silence an active alarm. Note that the alarm will resume ringing after a 15 minute (default) ring back interval settable by the user. Refer to the manual for instructions on setting the ring back interval.
- Press to acknowledge a past event, (appears in place of the bell). The heart icon changes from yellow to blue.
- Press to access a complete list of freezer events & alarms.

Other Functions

- Re-set
- Access temperature sensors
- Access power systems

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1. VERIFICATION OF ALL DIMENSIONS, SPECS. & NOTES REQUIRED FROM THE SUPPLIER AT THE TIME OF FIRST ARTICLE SUBMISSION. THIS SHALL INCLUDE MEASUREMENTS FROM THE FIRST ARTICLE SAMPLES.
2. SYMBOLS, DESIGNATIONS AND GENERAL DRAWING METHODS ENGW1002.
3. PART DIMENSION TOLERANCE UNLESS OTHERWISE SPECIFIED:
 .XXX = ±.030"
 .XX = ±.060"
 ANGULAR ±1°
4. PART MUST BE RoHS COMPLIANT
5. MATERIAL: 4 MIL THICK CLEAR VINYL ULTRA LOW PRESSURE SENSATIVE ADHESIVE (REMOVABLE)
6. PRINTING INKS: WHITE, HALF TONE CYAN, HALF TONE MAGENTA, HALF TONE YELLOW, HALF TONE BLACK, PANTONE 032RED
7. ADHESIVE SHALL HAVE BACKING PAPER WITH A BACKSPLIT
8. IMAGE TO BE CONTROLLED AS FILE: 315636_QSG-IMAGE_r-.PDF WHERE "r" INDICATES THE CURRENT REVISION OF THE CONTROLLING DRAWING.
9. COSMETIC CRITERIA: PRINTED TEXT TO BE CLEAR AND LEGIBLE FROM A MINIMUM DISTANCE OF 18"
10. PLACE OVERLAY OF PART NUMBER AND REVISION ONTO IMAGE AS SHOWN: FONT TO BE ARIAL NARROW 12 PT

PART NUMBER AND REVISION OVERLAY AS PER NOTE 10

REV.	ECN #	DATE	DESCRIPTION
A	DCO-000488	2012-12-17	REVISED DRAWING
-	65369	2012-25-01	INITIAL RELEASE

REVISIONS	
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TITLE	QUICK START GUIDE
3RD ANGLE PROJECTION	DWG. NO.
SIZE D	SHEET 1 OF 1
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