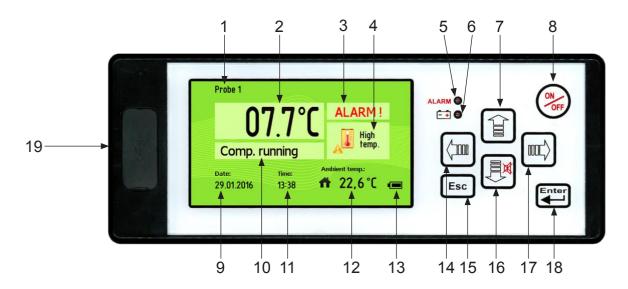
OPERATING INSTRUCTIONS

G214 Software - Version 4





Control Panel (G-214 Controller)



Control Panel Description

- 1. Probe shown in Main screen
- 2. Probe temperature
- 3. Alarm indicator
- 4. Status/alarm indicator
- 5. Alarm LED
- 6. Power failure LED
- 7. Up button (Press to show temperature graph)
- 8. On/Off button
- 9. Date
- 10. Compressor status
- 11. Time
- 12. Ambient temperature
- 13. Battery indicator
- 14. Left button
- 15. Esc button (Hold to return to main screen)
- 16. Down button (Mute alarm)
- 17. Right button
- 18. Enter button (Access the menu, Accept)
- 19. USB Connection (Log download and software update)

Use the up and down buttons to change values in the menus. Make sure to select OK to apply the settings otherwise, the changes will not be saved!



Settings Icons



Custom Settings (Page 4)



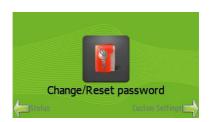
Advanced Settings (Page 5



Advanced Service Settings (Only accessible by Arctiko Staff)



Status (Page 7)



Change/Reset password (Page 7)





Custom Settings

Enter password to access Custom Settings. (Default password is "0000")



Change temperature set point.



Change settings for alarms and log



Select menu language (English, German, Russian, French, Spanish, Swedish, Turkish or Polish)



Set whether light always is On, On when door is open or On when door is closed.



Select temperature probe shown on Main Screen. (Extra probes optional depending on model)

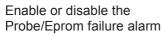




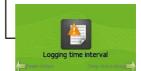




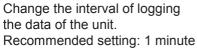








Enable or disable the Power failure alarm See more at page 9



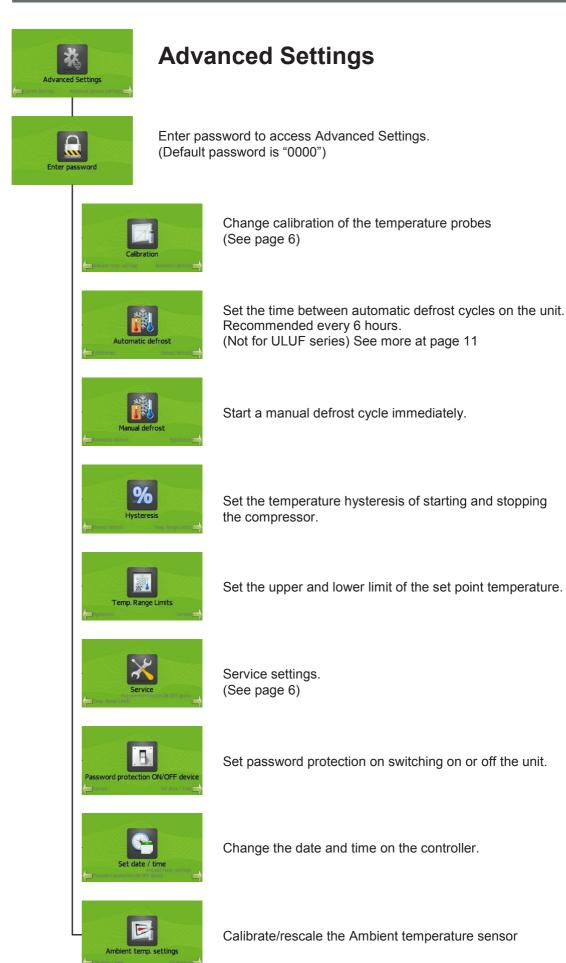
Change the delay before a high or low temperature alarm is activated, after exceeding the allowed limits. See more page 7

Enable or disable Door open alarm.

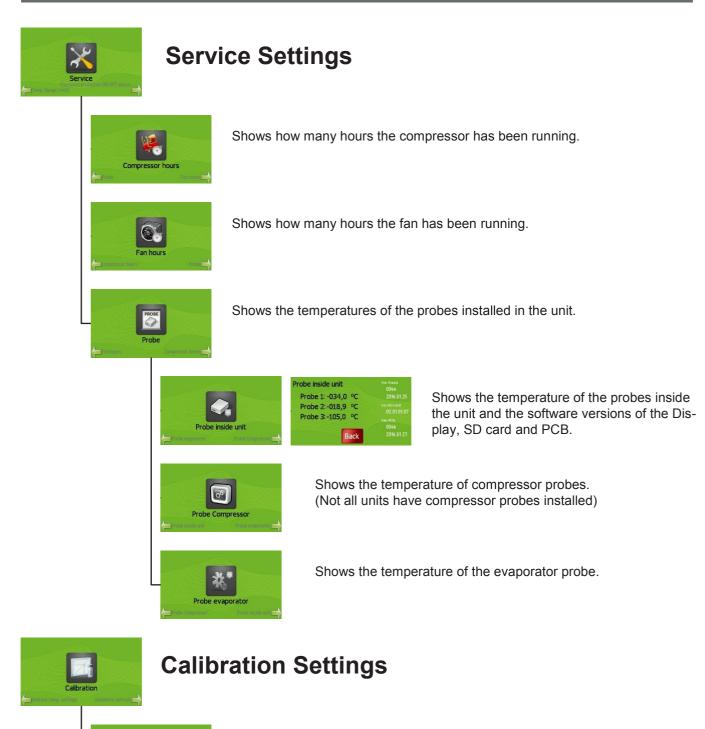
Change the setting of the highest allowed temperature before activating the High temperature alarm.

Change the setting of the lowest allowed temperature before activating the Low temperature alarm.











Change calibration of Probe 1.

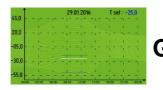
Change calibration of Probe 2.

Change calibration of Probe 3.



Shows a list with type, date and time for recent alarms.

Shows the highest and lowest temperature of the unit during the last 24 hours



Graph

Use arrow up, will show the graph for the actual day. Using the left arrow, will show up to 10 days left. Press ESC to return to Main screen



Change/reset password



Change the password for the Customer Settings, Advanced Settings and Advanced Service Settings.

Reset the password for the Customer Settings, Advanced Settings and Advanced Service Settings. Contact Arctiko for the password for resetting the passwords.

Downloading Data

se period data recording

All Data

Last 24 Hours Last Week Last Month



Insert a USB-drive while the unit is turned on and press the right arrow to read data from the unit onto the USB-drive.

Select time period to transfer to the USB-drive.

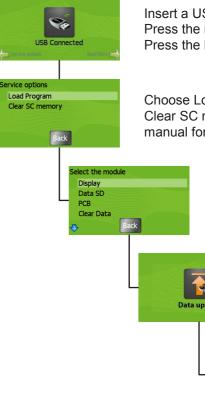


When the "Transfer completed icon" is shown, the transfer is finished and the USB-drive can be removed.

The data is saved as files named **data** and **param** with ascending numbers (e.g. 00, 01, 02 etc.) for new files. File type is a txt format.

Use Excel or a similar program to open the files for view or analyzing of the data.

Uploading Software and Parameters



Insert a USB-drive while the unit is turned off. Press the right arrow to read data from the unit onto the USB-drive (See above). Press the left arrow to upload new software or parameters to the unit.

Choose Load Program to upload new software or parameters to the unit. Clear SC memory is only used for units with Card lock mounted and is described in the manual for the Card lock.

Select module to upload.



While the unit is uploading the data the "Data upload" icon is shown in the display. Do not remove the USB-drive.



When the download is completed "Transfer completed" icon is shown. The USB-drive can now be removed.

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Alarm/status icons on display (See #4 in page 2)

To reset an alarm, press enter on the Main screen, and press OK for each alarm.





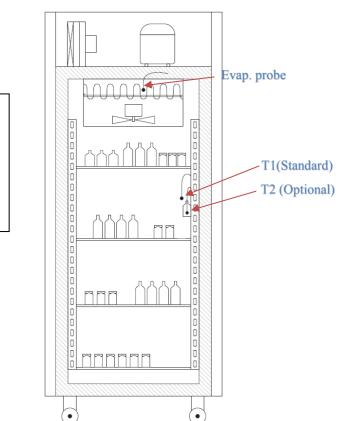
How Automatic defrost is working.

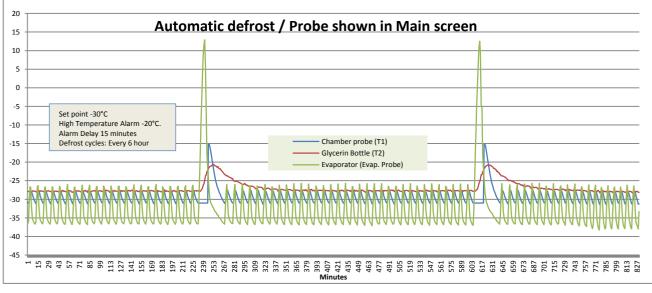
(Not for ULUF series)

As default the controller will run automatic defrost every 6 hours.

- 1. The automatic defrost cycles start, the compressor stops, the evaporator-fan stops.
- 2. The evaporator-heat element starts heating up the evaporator.
- 3. The evaporator-sensor is measuring the temperature in the evaporator.
- 4. When the temperature in the evaporator reach approx. +6°C., the heat element stop. The ice which was build up in the evaporator, will get into liquid form, and start floating out of the chamber, into the water tray on the back of the unit.
- 5. After the dripping time, the compressor start running again.
- 6. When the temperature in the evaporator reach -15°C., the evaporator-fan start running again.
- 7. The automatic defrost cycles end.

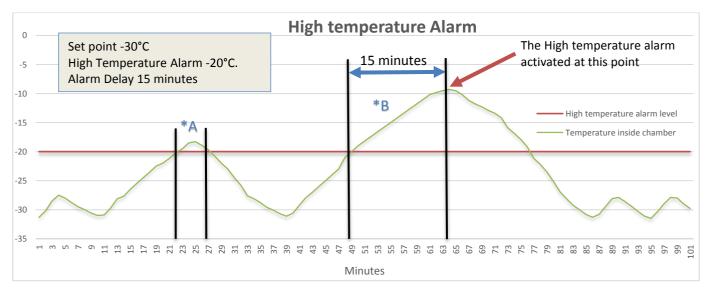
It can be useful to install an additional probe and install it in a bottle of glycerin, to compare with products in the unit. As shown in the graph below, the T2 probe will not raise as much as the T1 probe, since the T2 probe be comparable with the samples, instead of the T1 probe which measure the Air temperature.





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Alarm delay



*A Case 1: A door opening can course temperature to raise inside the chamber. In this case, the temperature raise more than High Temperature alarm level, but falling again within 15 minutes. In this case, no alarm has been activated.

*B Case 2: Loading sample in the chamber, can course the temperature to raise inside the chamber. In this case, the temperature reach more than the High Temperature Alarm Level, and the recovery time is more than 15 minutes, therefore the High Alarm temperature will be activated.

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