Manuals+ — User Manuals Simplified.

AK-UI55 Remote
Bluetooth Display

Danfoss AK-UI55 Remote Bluetooth Display Installation Guide

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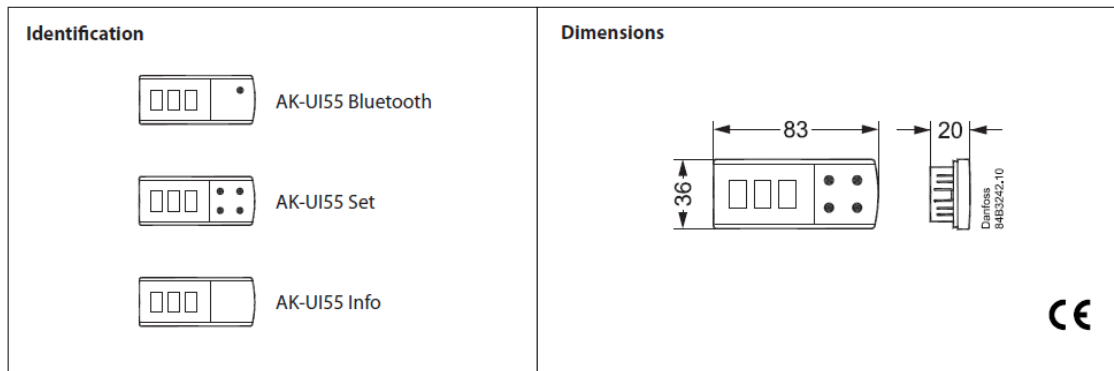
Danfoss AK-UI55 Remote Bluetooth Display

Specifications

- Model: AK-UI55
- Mounting: NEMA4 IP65

- Connection: RJ 12
- Cable Length Options: 3m (084B4078), 6m (084B4079)
- Maximum Cable Length: 100m
- Operating Conditions: 0.5 – 3.0 mm, Non-condensing

Installation Guide
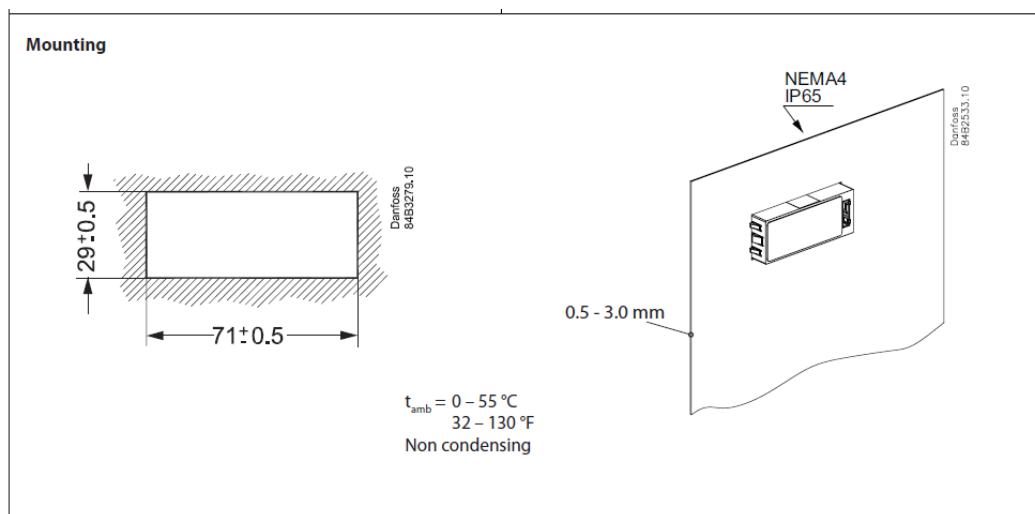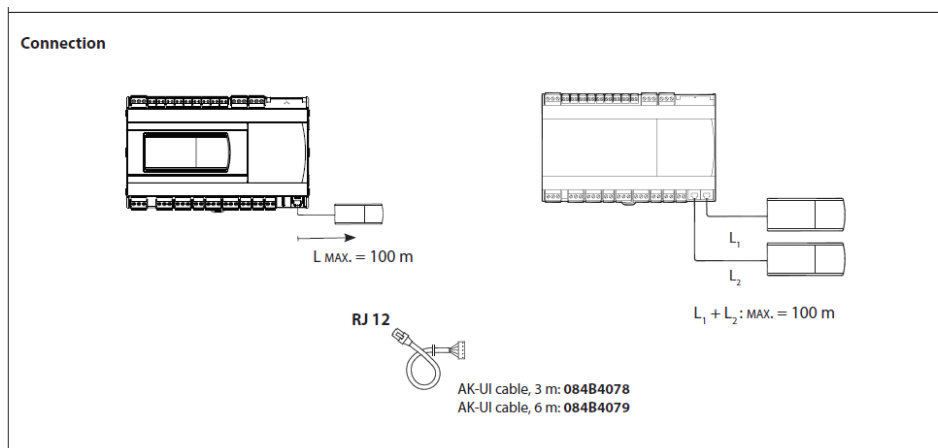
AK-UI55

Mounting Instructions
Follow the dimensions specified in the manual for proper mounting.

Connection
Connect the AK-UI cable to the designated RJ-12 port. Ensure proper cable length and follow installation guidelines.

Connection

L MAX. = 100 m

RJ 12

AK-UI cable, 3 m: **084B4078**
AK-UI cable, 6 m: **084B4079**

$L_1 + L_2$: MAX. = 100 m

Display Messages

The display provides information on energy optimization, cooling, defrosting, fan operation, and alarm notifications. Refer to the manual for detailed messages and their meanings.

AK-UI55 Info

Lights up in event of:
Alarm

Lights up in event of:
Energy optimization
Cooling
Defrosting
Fan operation
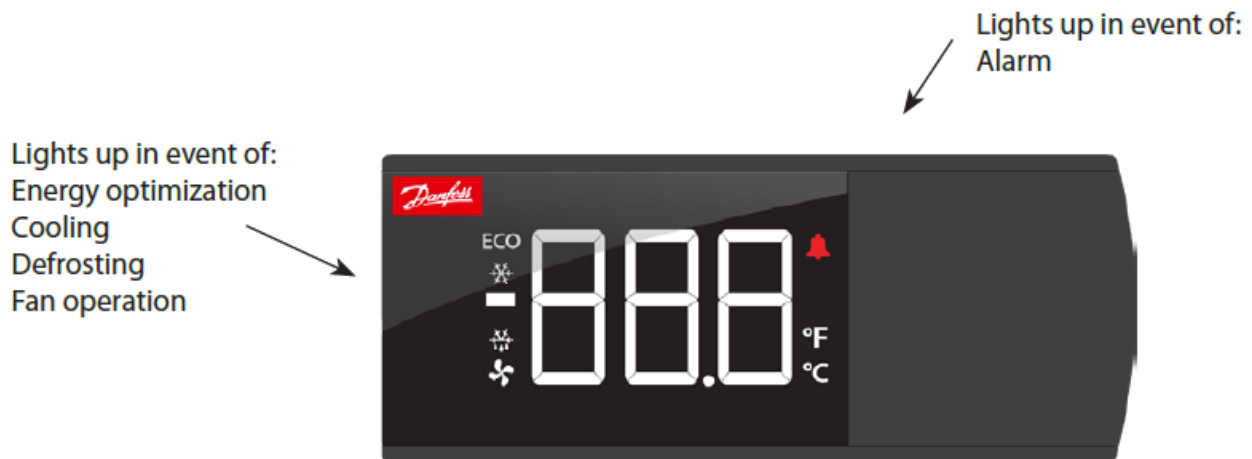
With start-up /connection to a controller, the display will "light up in circles" as it collects data from the controller.

The display can give the following messages:

- -Defrost is in progress
- The temperature cannot be displayed due to a sensor error
- Fan Appliance cleaning has been initiated. The fans are running
- OFF Appliance cleaning is activated, and the appliance can be cleaned
- OFF The main switch is set to Off
- SEr The main switch is set to service / manual operation
- CO2 Flashes: Will display in the event of a refrigerant leakage alarm, but only if the refrigerant is set up for CO2

AK-UI55 Bluetooth
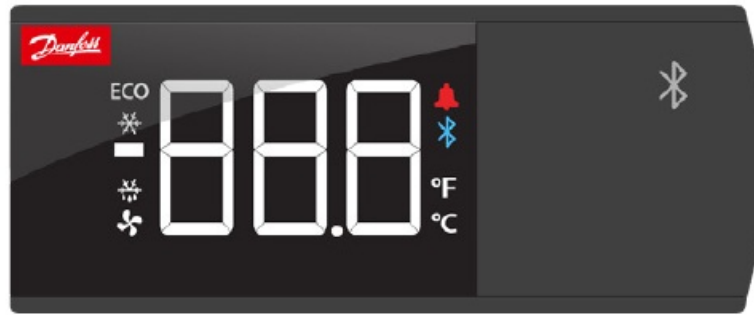
Access to parameters via Bluetooth and app

1. The app can be downloaded from the Google App Store and Google Play. Name = AK-CC55 Connection.
   Start the app.
2. Click on the display's Bluetooth button for 3 seconds.
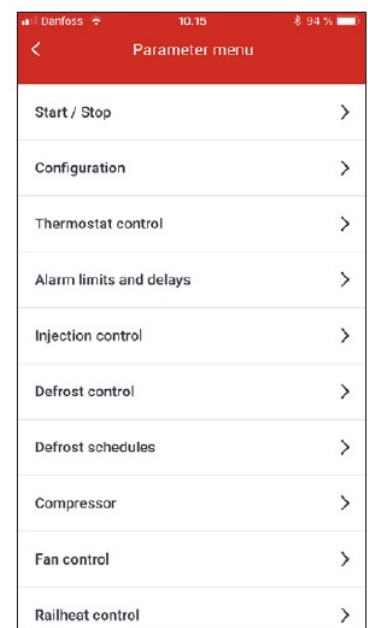   The Bluetooth light will then flash while the display is showing the controller's address.
3. Connect to the controller from the app.

Without configuration, the display can show the same information as shown above.

Loc
The operation is locked and cannot be operated via Bluetooth. Unlock the system device.
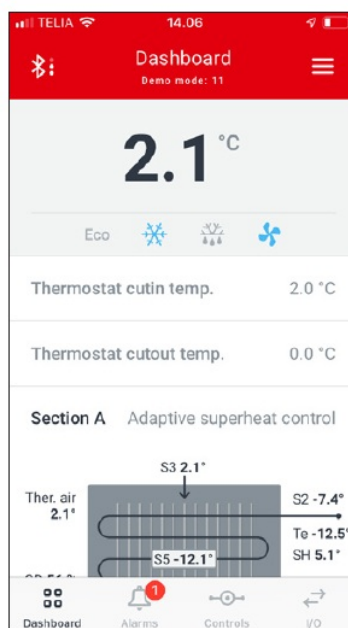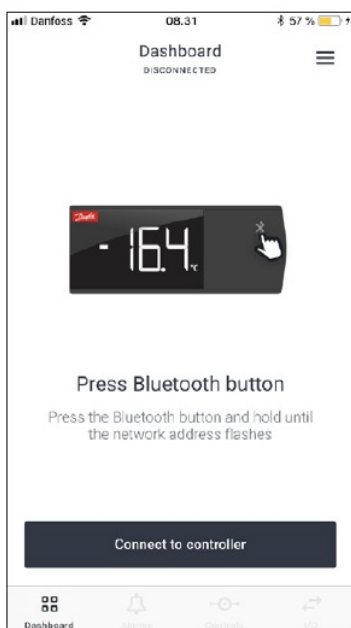
AK-UI55 Set

Display during operation
The values will be shown with three digits, and with a setting you can display the temperature in °C or in °F.

Lights in event of alarm — press on alarm button — alarm relay is reset — alarm code displayed — e.g. "A1"

Alarm Codes:
See the respective controller's User Guide.

Lights up in event of:
Energy optimization
Cooling
Defrosting
Fan operation
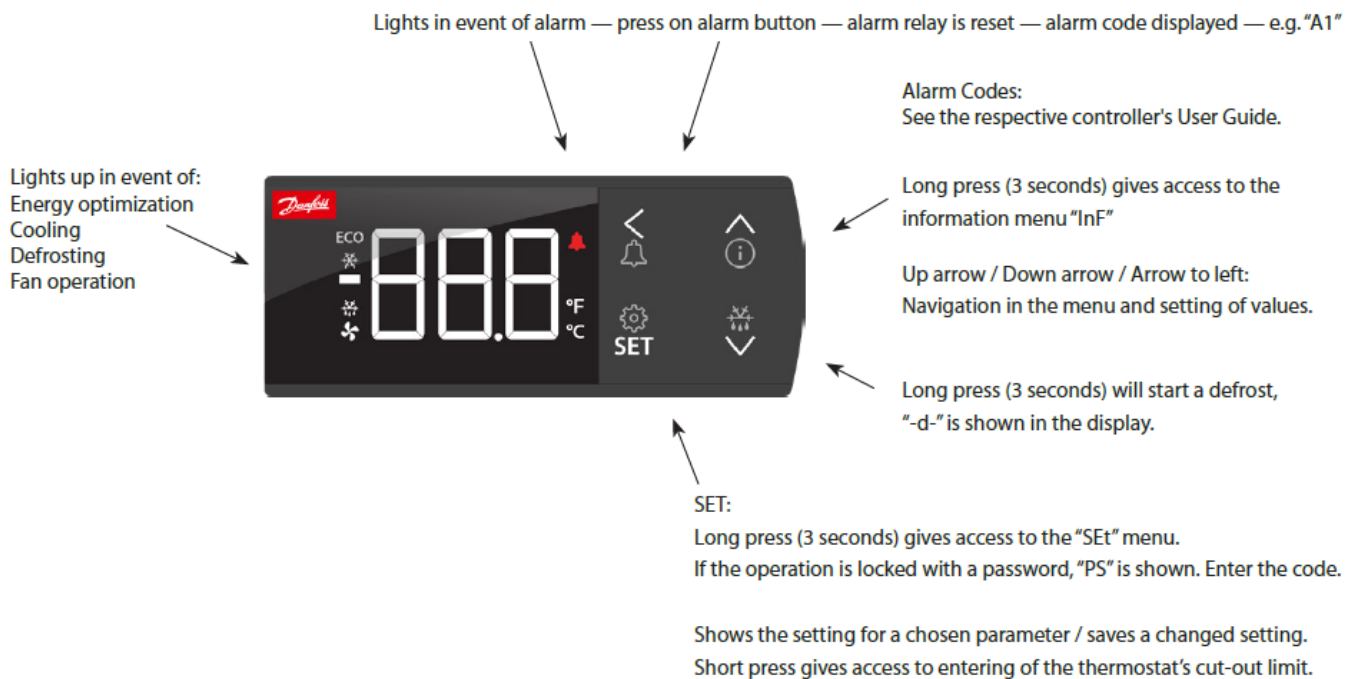
Long press (3 seconds) gives access to the information menu "InF"

Up arrow / Down arrow / Arrow to left:
Navigation in the menu and setting of values.

Long press (3 seconds) will start a defrost, "-d-" is shown in the display.

SET:
Long press (3 seconds) gives access to the "SEt" menu.
If the operation is locked with a password, "PS" is shown. Enter the code.

Shows the setting for a chosen parameter / saves a changed setting.
Short press gives access to entering of the thermostat's cut-out limit.

The display can give the following messages:

- -d- Defrost is in progress
- The temperature cannot be displayed due to a sensor error
- The display cannot load data from the controller. Disconnect and then reconnect the display
- ALA The alarm button is activated. The first alarm code is then shown
- At the top position of the menu or when max. Value has been reached, the three dashes are shown at the top of the display
- At the bottom position of the menu or when min. value has been reached, the three dashes are shown at the bottom of the display
- The configuration is locked. Unlock by pressing (for 3 seconds) on the 'up arrow' and 'down arrow' simultaneously
- The configuration is unlocked
- The parameter has reached min. Or max. limit
- PS: A password is required for access to the menu
- Fan Appliance cleaning has been initiated. The fans are running
- OFF Appliance cleaning is activated, and the appliance can now be cleaned
- OFF. The main switch is set to Off
- SEr The main switch is set to service / manual operation
- CO2 Flashes: Will display in the event of a refrigerant leakage alarm, but only if the refrigerant is set up for CO2

Factory setting
If you need to return to the factory˙set valuesˆ, do the following:

- Cut off the supply voltage to the controller
- Keep up " ∧ and down "arrow buttons depressed at the same time as you reconnect the supply voltage

- When FAc is shown in the displayˆ, select "yes"˘

Statements for the AK-UI55 Bluetooth display:

FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved could void your authority to use this equipment
This device complies with Part 15 of the FCC Rules. Operation 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

INDUSTRY CANADA STATEMENT
This device complies with Industry Canada license-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.

NOTICE

FCC COMPLIANT NOTICE
This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 according to 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 to 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.

Modifications: Any modifications made to this device that are not approved by Danfoss may void the authority granted to the user by the FCC to operate this equipment.

- Danfoss Cooling 11655 Crossroads Circle Baltimore, Maryland 21220
- United States of America
- **www.danfoss.com**

EU CONFORMITY NOTICE

- Hereby, Danfoss A/S declares that the radio equipment type AK-UI55 Bluetooth complies with Directive 2014/53/EU.
- The full text of the EU declaration of conformity is available at the following internet address:
  www.danfoss.com
  - Danfoss A/S Nordborgvej 81 6430 Nordborg Denmark
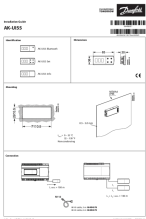 - **www.danfoss.com**

FAQS

Q: What should I do if I encounter an "Err" message on the display?
A: The "Err" message indicates a sensor error. Refer to the user guide for troubleshooting steps or contact customer support for assistance.

Q: How can I unlock Bluetooth operation if it is locked?
A: Unlock Bluetooth operation from the system device as instructed in the manual. Follow the steps to regain access to Bluetooth settings.

Documents / Resources

[Danfoss AK-UI55 Remote Bluetooth Display](#) [pdf] Installation Guide
AK-UI55, AK-CC55, AK-UI55 Remote Bluetooth Display, Remote Bluetooth Display, Bluetooth Display

References

- **User Manual**