

User Manual Danfoss Wireless Control Panel OPXxx (DRAFT)

Control Panel 2.8 OPX20, Control Panel 2.8W OPX21, Wireless Panel OPX01

Items Supplied

- Control Panel 2.8W OPX21 or Control Panel 2.8 OPX20 (no WiFi/BT)



Or

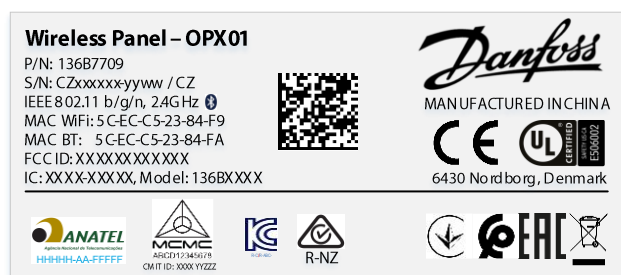
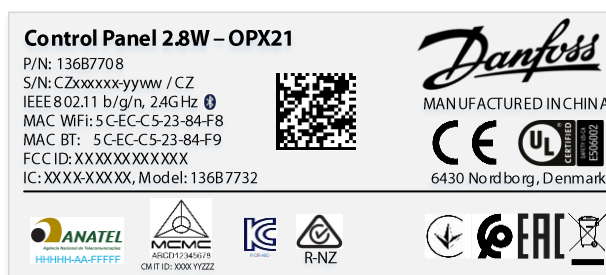
- Wireless Panel OPX01



Compatible Product Series

All iC7 based products are compatible with the panel options either mounted into the cradle within the product or front mounted and connected through a cable.

Approvals and Certifications



FCC COMPLIANCE NOTICE

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 1 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/television 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.

RF EXPOSURE COMPLIANCE

Health MPE calculation have to be done...



Installation

The panel options are all hot pluggable meaning the panel options can be detached from the product (with power on), without stopping or shutting it down.

To attach the control- or wireless panel, perform the following:

1. Mount it to the bottom of the cradle.
2. Gently push and align into the cradle. The clip makes a click sound when properly attached.

Result

- The control- or wireless panel is locked into the cradle
- If power is supplied to the product it will start powering up

To detach the control- or wireless panel, perform the following:

1. Press the clip on top
2. Pull the control panel towards you

To install the MyDrive Insight app, perform the following:

1. Install MyDrive® Suite from Google Play, Apple Store or suite.mydrive.danfoss.com to have the full view on the portfolio of Danfoss Drives apps
2. Open MyDrive® Suite and install MyDrive® Insight

Connection Procedure

Default operation mode is *Off* but can be configured for *Access Point Mode* or *Client Mode* operation from parameter *xx-xx-yy WiFi Operation Mode*.

xx-xx-yy	WiFi Operation Mode	Access_Point_Mode Client_Mode Off
----------	---------------------	---

Access Point Mode

The wireless SSID is *Danfoss* following the *serial number* of the iC7 Product. For example, *Danfoss-012345678900* is the default wireless SSID for a product with the serial number *012345678900*. The serial number can be located on the product label or alternatively from parameter *xx-xx-0x Serial Number*. Default Password is *Danfoss1234*

xx-xx-0x	AP Wireless SSID	Danfoss-012345678900
----------	------------------	----------------------

1. Open the MyDrive Insight app and establish the Wi-Fi connection, see table for descriptions of the white Wi-Fi LED.
2. When prompted, change the default password due to security restrictions. The password must be at least 8 and maximum 48 characters.

If the password is not changed, it leaves only 10 minutes for connecting and performing operations. After this, the wireless connection closes.

Reset password

If password is forgotten, it can be reset from MyDrive Insight through the NFC interface on the control- or wireless panel or through the Service Port.

Client Mode

xx-xx-1x	CM Wireless SSID	Danfoss-123456789
xx-xx-1y	CM Password	123456789

1. Open the MyDrive Insight app and establish connection either wired or wireless.
2. Configure the Client Mode SSID and Password according to the access point
3. Configure Wi-Fi Operation Mode to Client Mode operation

LED Pattern

Status indicators

Status	Panel options	
Status type	Control Panel 2.8W	Wireless Panel
Power On Not Ready	Blinking White (1Hz)	Blinking White (1Hz)
Ready for operation	On White	On White
Fault	On Red	On Red
Warning	On Yellow	On Yellow
Winking from external application	Blinking (Yellow/White/Red)	Blinking (Yellow/White/Red)

Wireless indicators – Access Point Mode

Wi-Fi Status	Panel options	
Wi-Fi Status type	Control Panel 2.8W	Wireless Panel
Wi-Fi not active	LED indicator shows no color. White Halo on control panel.	LED indicator shows no color. White Halo on wireless panel.
Wi-Fi is active (Devices are connected or not connected)	LED indicator shows white color. White Halo on control panel.	LED indicator shows white color. White Halo on wireless panel.

Wireless indicators – Client Mode

Wi-Fi Status	Panel options	
Wi-Fi Status type	Control Panel 2.8W	Wireless Panel
Wi-Fi not active	LED indicator shows no color. White colored halo on control panel.	LED indicator shows no color. White colored halo on wireless panel.
Wi-Fi is active (Devices are not connected)	LED indicator shows white color. White colored halo on control panel.	LED indicator shows white color. White colored halo on wireless panel.
Wi-Fi is active (Devices are connected)	LED indicator shows white color. White colored halo on control panel.	LED indicator shows white color. White Halo on wireless module.

Safe Control

The safe control configuration allows the product to decide the behavior in cases where connectivity is lost from MyDrive Insight to the product through the Wi-Fi interface. This is only applicable when the product is in running operation.

xx-xx-2x	Wi-Fi Timeout Action	Do nothing (<i>Product continues to run</i>) Stop the motor (<i>Generic term to be found because product could be a grid converter or an Active Front End</i>)
----------	----------------------	---

EU Declaration of Conformity

To be attached here