Installation Guide

Control Panel 2.0 OP2

iC2-Micro Frequency Converters

1 Overview

This installation guide explains how to install and operate the Control Panel 2.0 OP2 for iC2-Micro Frequency Converters.

Control Panel 2.0 OP2 enhances the user experience by providing easy drive setup via parameters, drive status monitoring, and event notification visualization.

A more detailed overview of Control Panel 2.0 OP2 is as follows:

- 2.03" monochromatic user interface.
- Visual LEDs indicate drive status.
- Controls the drive and facilitates switching between local and remote operation.
- Multilingual display enhances clarity of parameters, selections, and status information.
- Parameter settings can be easily copied to other drives for simplified commissioning.
- Control Panel 2.0 OP2 has an IP20 protection rating.
- Cabinet door installation with an optional mounting kit provides IP55 protection.

2 Item Supplied

Use these instructions with the following item.

Table 1: Item Supplied

Code number	Item description
132G0234	Control Panel 2.0 OP2

3 Safety Precautions

Only qualified personnel are allowed to install the Control Panel 2.0 OP2 described in this installation guide.

4 Electrical Ratings

Table 2: Electrical Ratings

Function	Data
Ambient or surrounding air temperature rating (Operation)	-20 °C to 55 °C (-4 °F to 131 °F)
Input voltage	5 V
Input current	70 mA

5 Approvals and Certifications

UKCA contact information:

Danfoss, 22 Wycombe End, HP9 1NB, Great Britain

6 Control Panel Elements

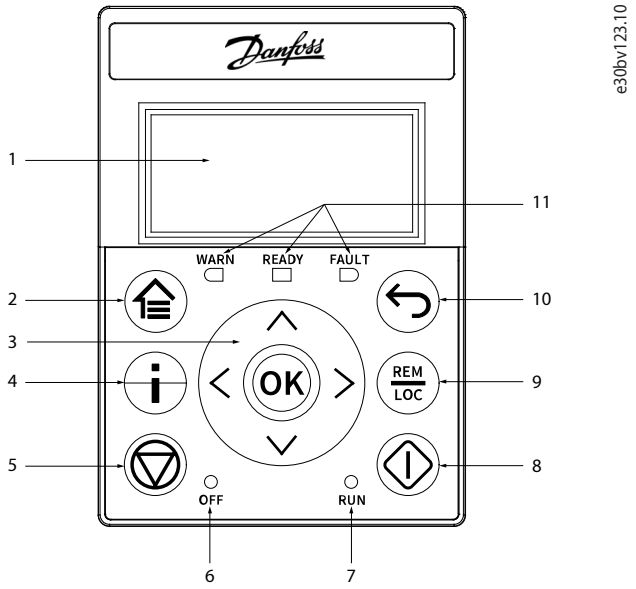

Figure 1: Control Panel 2.0 OP2 Overview

Table 3: Control Panel Elements Description

Legend	Name of element	Description
1	Display	Provides access to content and settings. The display provides detailed information about the status of the drive.
2	Home/Menu	• Toggles between status view and main menu. • Long press to access the shortcut menu for quickly reading and editing parameters.
3	Arrows and [OK]	• **Arrows**: Navigate within the different screens and menus, and tune the parameter values. • **[OK]**: Confirms selections and data in the control panel display.
4	Info	Provides drive information by pressing the *Info* button from the home screen, for example, the drive type, ordered model code, drive serial number, application version.
5	Stop/Reset	Stops the operation of the drive.
6	OFF LED	The indicator has the following states: • **Steady on:** The indicator is in this state when: - The drive is not modulating and the drive is coasted. - The stop or coast signal is applied. Ramp times, protections, and stopping functions might prolong this state. • **Off:** The drive is in operation, a start signal is applied, and the output is active. This also includes ramping, running on reference, and AMA.
7	RUN LED	The indicator has the following states: • **On:** The drive is in normal operation. • **Off:** The drive has stopped. • **Flash:** The indicator is in this state when: - In the motor-stopping process (ramp down). - The drive received a *RUN* command, but no frequency output.
8	Run	Starts the operation of the drive.
9	REM/LOC	Toggles the drive between remote and local operation.

Table 3: Control Panel Elements Description - (continued)

Legend	Name of element	Description
10	Back	Navigates to a previously viewed screen or a menu level above the current menu.
11	Drive Status Indicators	The related LEDs indicate the status of the drive. • **[WARN]**: A steady yellow light indicates a warning. • **[READY]**: A steady green light indicates that the drive is ready. • **[FAULT]**: A flashing red light indicates a fault.

NOTICE

Refer to iC2-Micro Frequency Converters Application Guide for more detailed information and operation on Control Panel 2.0 OP2.

7 Installation

The Control Panel 2.0 OP2 can be connected directly to iC2-Micro Frequency Converters via a shielded CAT5e cable.

NOTE:

- It is recommended to mount the Control Panel 2.0 OP2 with the flush/surface kit on cabinet door, refer to the installation guides of Flush Mounting Kit OA2 or Surface Mounting Kit OA2.
- When performing direct surface mounting of the Control Panel 2.0 OP2 on cabinet door without mounting kit, refer to the mirrored drawing of Figure 2 for opening hole locations. Recommended mounting screws for Control Panel 2.0 OP2: M3x6 or M3x8.

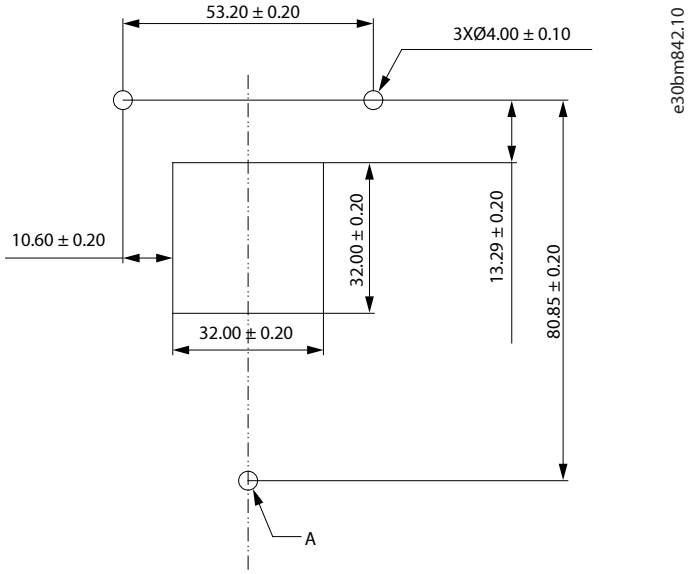

Figure 2: Layout Drawing of RJ45 Port and Screw Hole Locations on the Rear of Control Panel 2.0 OP2

A	Panel cut out. Panel thickness: 1–3 mm (0.04–0.12 in)

Danfoss A/S
Ulsnaes 1
DK-6300 Graasten
drives.danfoss.com

M00385