

Local Control

The LCP-2 is an optional control panel for programming and monitoring the FCM 300 unit.

NOTE!

The VLT 5000 Series LCP-2 (part #175ZO401) can not be used with the FCM 300. However, the LCP-2 (part #175NO131) can be used with all VLT 5000, VLT 2800 and FCM 300 Series units.

LCP-2 installation

The LCP-2 is connected to the X100 terminals (1-4). For more information, see separate instruction manual MI.03.AX.YY.

LCP-2 Functions

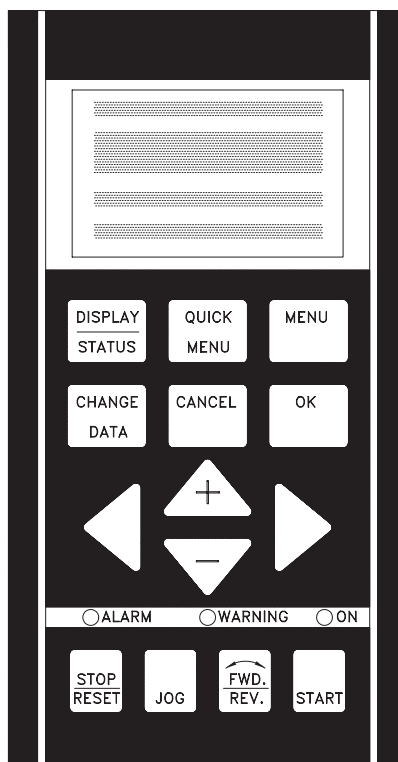
The functions of the control panel can be divided into three groups:

- display
- keys for changing program parameters
- keys for local operation

All data is indicated by means of a 4-line alpha-numeric display, which in normal operation is able to show 4 measurements and 3 operating conditions continuously. During programming, all the information required for quick, effective parameter

Setup of the FCM 300 will be displayed. As a supplement to the display, there are three LEDs for voltage, warning and alarm.

All program parameters of the FCM 300 can be changed immediately from the control panel, unless this function has been blocked via parameter 018.



DANFOSS
175ZA004.10

Display

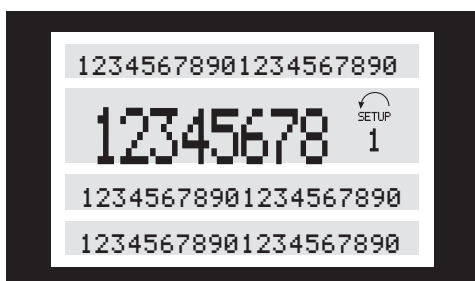
The LCD-display is back-lit with 4 alpha-numeric lines. The display also shows the direction of motor rotation with an arrow, the active set-up, and the set-up currently being programmed (can be different than the active set-up).

1st line

2nd line

3rd line

4th line



1st line shows up to 3 measurements continuously in normal operating status or a text which explains the 2nd line.

2nd line shows a measurement with related unit continuously, regardless of status (except in the case of alarm/warning).

3rd line is normally blank and is used in the menu mode to show the selected parameter number or parameter group number and name.

4th line is used in operating status for showing a status text or in data change mode for showing the value of the selected parameter.



An arrow indicates the direction of rotation of the motor. Furthermore, the Setup which has been selected as the Active Setup in parameter 004 is shown. When programming another Setup than the Active Setup, the number of the Setup which is being programmed will appear to the right. This second Setup number will flash.

LEDs

At the bottom of the control panel is a red alarm LED and a yellow warning LED, as well as a green voltage LED.

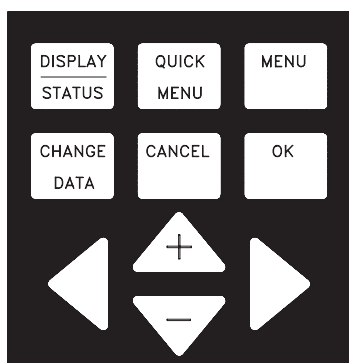


If certain threshold values are exceeded, the alarm and/or warning lamp is lit together with a status and alarm text on the control panel.

The green ON LED will be lit when power is applied to the FCM 300 unit and text will appear on the back-lit display.

Control Keys

The control keys above the line of LEDs are used for programming. Some parameters can be changed while the FCM 300 is operating.



The four keys below the LED indicators are for local control of the FCM 300.



Control Key Functions



[DISPLAY / STATUS] is used for selecting the mode of display or for changing back to Display mode from either the Quick menu mode or the Menu mode.



[QUICK MENU] is used for programming the parameters that belong under the Quick menu mode. It is possible to switch directly between Quick menu mode and Menu mode.



[MENU] is used for programming all parameters. It is possible to switch directly between Menu mode and Quick menu mode.



[CHANGE DATA] is used for changing the parameter selected either in the Menu mode or the Quick menu mode.



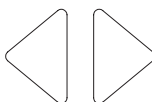
[CANCEL] is used if a change of the selected parameter is not to be carried out.



[OK] is used for confirming a change of the parameter selected.



[+/-] is used for selecting parameter and for changing the chosen parameter or for changing the read out in line 2.



[<>] is used for selecting group and to move the cursor when changing numerical parameters.



[STOP / RESET] is used for stopping or for resetting the FCM 300 after a drop-out (trip). Can be selected via parameter 014 to be active or inactive. If stop is activated, line 2 will flash, and [START] must be activated.

NOTE!

Pressing [STOP/RESET] will prevent motor from running also with disconnected LCP-2.

Restarting is only possible via the LCP-2 [START] key.



[JOG] overrides the output frequency to a preset frequency while the key is kept down. Can be selected via parameter 015 to be active or inactive.



[FWD / REV] changes the direction of rotation of the motor, which is indicated by means of the arrow on the display although only in Local. Can be selected via parameter 016 to be active or inactive (parameter 013 must be set to [1] or [3] and parameter 200 set to [1]).



[START] is used for starting the FCM 300 after stop via the [Stop] key. Is always active, but cannot override a stop command given via the terminal strip.