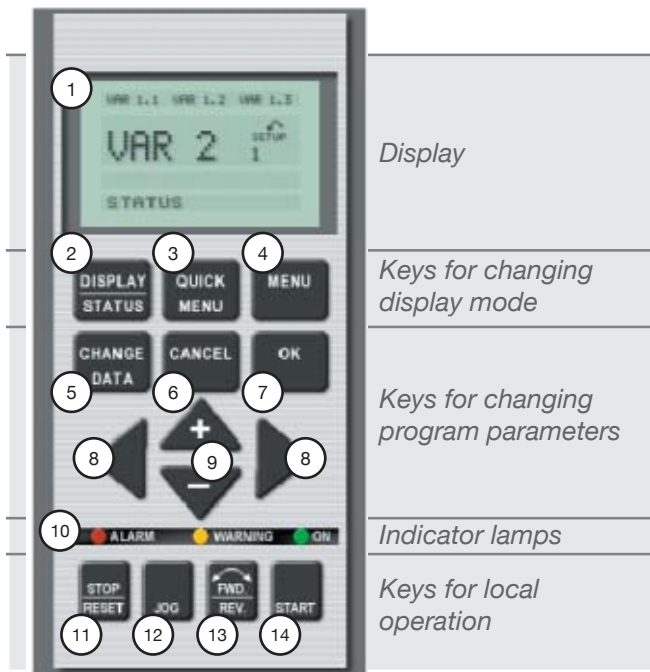


Local Control Panel for Danfoss VLT[®] FMC 300



- 6 **[CANCEL]** is used if a change of the selected parameter is not to be carried out.
- 7 **[OK]** is used for confirming a change of the parameter selected.
- 8 **[< >]** is used for selecting group and to move the cursor when changing numerical parameters.
- 9 **[+/-]** is used for selecting parameter and for changing the chosen parameter or for changing the read out in line 2.
- 10 **Indicator lamps**
A red alarm lamp, a yellow warning lamp and a green voltage LED.
If certain threshold values are exceeded, the alarm and/or warning lamp lights up together with a status and alarm text on the control panel.
The voltage LED is activated when the FC motor receives voltage; at the same time the rear lighting of the display will be on.
- 11 **[STOP / RESET]** is used for stopping or for resetting the FC motor 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.
NB! Pressing [STOP/RESET] will prevent motor from running also with disconnected LCP 2. Restarting is only possible via the LCP 2 [START] key.
- 12 **[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.
- 13 **[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]).
- 14 **[START]** is used for starting the FC motor after stop via the [Stop] key. Is always active, but cannot override a stop command given via the terminal strip.

1 **Display window**

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.

The left part of the status line indicates the control element of the VLT frequency converter that is active.

The centre part of the status line indicates the reference element that is active.

The last part of the status line indicates the current status, for example "Running", "Stop" or "Alarm".

An arrow indicates the direction of rotation of the motor. Furthermore, the Setup which has been selected as the Active Setup 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.

- 2 **[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.
- 3 **[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.
- 4 **[MENU]** is used for programming all parameters. It is possible to switch directly between Menu mode and Quick menu mode.
- 5 **[CHANGE DATA]** is used for changing the parameter selected either in the Menu mode or the Quick menu mode.

Display modes

The Display modes of the Display are changed by pressing the [DISPLAY /STAUS] button on the Control Panel

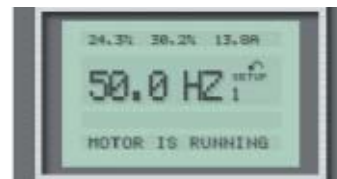


Read-out state I

Standard after starting up or after initialization.

Line 2 gives the data value of an operating variable with related unit, and line 1 provides a text that explains line 2, cf. table.

In the example, Frequency has been selected as variable.



Read-out state II

Press the [DISPLAY/STATUS] button to change to Read-out state II.

In this state, data values for four operating values are shown at the same time, giving the related unit, cf. table.

In the example, Reference, Torque, Current and Frequency are selected as variables in the first and second line.



Read-out state III

This read-out state can be held as long as the [DISPLAY/STATUS] key is pressed. When the key is released, the system switches back to Read-out state II, unless the key is pressed for less than approx. 1 sec.

This is where parameter names and units for operating variables in the first line are given - operating variable 2 remains unchanged.

General programming instructions



The parameters used to control the frequency converters may be easily programmed by the user. The **[QUICK MENU]** button provides a list with a some of the most common parameters. The **[MENU]** button allows the user to program all parameters.

Johnson Pump Horticulture provides you with this Quick Start guide for optimizing your pump performance.

This guide assumes you are using the Display in *Read-out state II*.

Entering programming mode



Press the **[MENU]** key, which produces the following read-out on the display



Line 3 on the display shows the parameter group number and name.

Selection of parameters



Selection of parameter group is effected by means of the **[< >]** keys.

The parameters are divided into groups according to their function. The first digit of the parameter number (from the left) indicates the group number of the parameter in question.

The following parameter groups are accessible:

Group no.	Parameter group
1	Operation & Display
2	Load & Motor
3	Reference & Limits
4	Inputs & Outputs
5	Special functions
6	Serial communication
7	Technical functions



When the desired parameter group has been selected, each parameter can be chosen by means of the **[+/-]** keys:



The 3rd line of the display shows the parameter number and name, while the status/value of the selected parameter is shown in line 4.

General programming instructions, continued

Changing / entering data



Pressing the **[CHANGE DATA]** key gives access to changing the selected parameter, following which the underlining in line 4 will flash on the display.

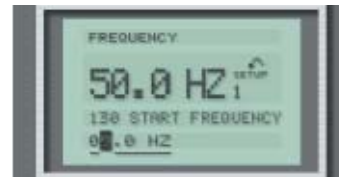
Changing / entering text data

If the selected parameter is a text value, the text value is changed by means of the **[+/-]** keys. The bottom display line shows the text value that will be entered (saved) when you verify the change **[OK]**.



Changing / entering numerical data

If the chosen parameter represents a numeric data value, a digit is first selected by means of the **[< >]** keys. Then the chosen digit is changed infinitely variably by means of the **[+/-]** keys. The chosen digit is indicated by the digit flashing. The bottom display line shows the data value that will be entered (saved) when you verify the change **[OK]**.



Validating / saving changes



Press the **[OK]** button to verify and save your parameter settings.