

Parameter settings for Danfoss VLT® FCM 300 0–10V signal from controller



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*.

Parameter settings

Group 0 - Operation & Display

Param. no.	Description	Window text	Setting	Serial port value
002	Local/remote control	OPERATION SITE	REMOTE	0
009	Display line 2	DISPLAY LINE 2	FREQUENCY [Hz]	4
010	Display line 1.1	DISPLAY LINE 1.1	POWER [KW] / [hp][US]	8 / 9
011	Display line 1.2	DISPLAY LINE 1.2	MOTOR CURRENT [A]	6
012	Display line 1.3	DISPLAY LINE 1.3	ANALOG INPUT 2 [V]	31

Group 1 - Load & Motor

Param. no.	Description	Window text	Setting	Serial port value
100	Configuration	CONFIG. MODE	SPEED OPEN LOOP	3
101	Torque characteristics	TORQUE CHARACT	VAR. TORQUE: LOW	2

Group 2 - References & Limits

Param. no.	Description	Window text	Setting	Serial port value
200	Rotation direction	ROTATION	132 Hz CLOCKWISE	0
201	Min. output frequency	MIN OUTPUT FREQ	0.0 Hz	0
202	Max. output frequency	MAX OUTPUT FREQ	50 Hz	50000
204	Min. reference	MIN. REFERENCE	0 HZ	0
205	Max. reference	MAX. REFERENCE	50 Hz	50000
207	Ramp-up time 1	RAMP UP TIME 1	15.00 sec.	1500
208	Ramp-down time	RAMP DOWN TIME 1	15.00 sec.	1500

Group 3 - Inputs & Outputs

Param. no.	Description	Window text	Setting	Serial port value
332	Terminal 2, analogue/digital input	DIGITAL INPUT 2	REFERENCE	30
334	Terminal 4, digital input	DIGITAL INPUT 4	START	7
338	Terminal 2, min. scaling	AI 2 SCALE LOW	0.0 V	0
339	Terminal 2, max. scaling	AI 2 SCALE HIGH	10.0 V	100
340	Terminal 9, output functions (output is activated by Alarm 24 V DC signal)	OUTPUT FUNC.	FAULT	6

All other parameter settings --> factory default settings

Parameter settings for Danfoss VLT[®] FCM 300

0–10V signal from controller

Troubleshooting

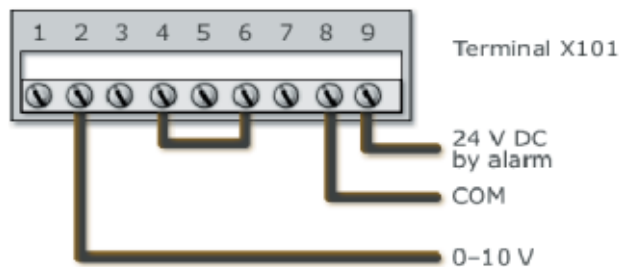
Not working?

Parameter 620 [OPERATION MODE]/[INITIALIZE] can be used to reset all parameters to the default factory settings.

Procedure for initialisation:

1. Select initialisation (parameter 620)
2. Press **[OK]**
3. Disconnect mains power supply and wait for the light in the display to go out
4. Reconnect to mains
5. Initialisation of all parameters will be carried out
6. Reprogram the above parameters

Wiring diagram



The connection between terminal 4 and 6 can be replaced by a contact from the controller.

Press **[DISPLAY / STATUS]**.

Three values are shown at the top of the display; parameter settings 010, 011 and 012.

The value on the far right is the voltage connected to terminal 2.