

Parameter settings for Danfoss VLT[®] 6000 HVAC

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 **[EXTEND. 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 *Display mode II*.

Parameter settings

Group 0 - Operation & Display

Param. no.	Description	Window text	Setting	Serial port value
001	Language	LANGUAGE	ENGLISH	0
005	Max. value of user-defined readout	CUSTOM READOUT	600.00	
007	Large display readout	LARGE READOUT	FREQUENCY [Hz]	3
008	Small display readout 1.1	SMALL READOUT 1	SET POINT 1 [UNITS]	11
009	Small display readout 1.2	SMALL READOUT 2	FEEDBACK 1 [UNITS]	13
010	Small display readout 1.3	SMALL READOUT 3	ANALOG INPUT 60 [mA]	23

Group 1 - Load & Motor

Param. no.	Description	Window text	Setting	Serial port value
100	Configuration	CONFIG. MODE	OPEN LOOP	0

Group 2 - References & Limits

Param. no.	Description	Window text	Setting	Serial port value
201	Output frequency low limit, f_{MIN}	MIN. FREQUENCY	0.000 Hz	0
202	Output frequency high limit, f_{MAX}	MAX. FREQUENCY	50.000 Hz	50000
204	Minimum reference, Ref_{MIN}	MIN. REFERENCE	0.000 HZ	0
205	Maximum reference, Ref_{MAX}	MAX. REFERENCE	50.000 Hz	50000
206	Ramp-up time 1	RAMP UP TIME 1	15.00 sec.	1500
207	Ramp-down time	RAMP DOWN TIME 1	15.00 sec.	1500

Group 3 - Inputs & Outputs

Param. no.	Description	Window text	Setting	Serial port value
308	Terminal 53, analogue input voltage	AI [V] 53 FUNCT.	REFERENCE	1
309	Terminal 53, min. scaling	AI 53 SCALE LOW	0.0 V	0
310	Terminal 53, max. scaling	AI 53 SCALE HIGH	10.0 V	100
314	Terminal 60, analogue input current	AI [mA] 60 FUNCT.	NO OPERATION	0

All other parameter settings --> factory default settings

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Troubleshooting

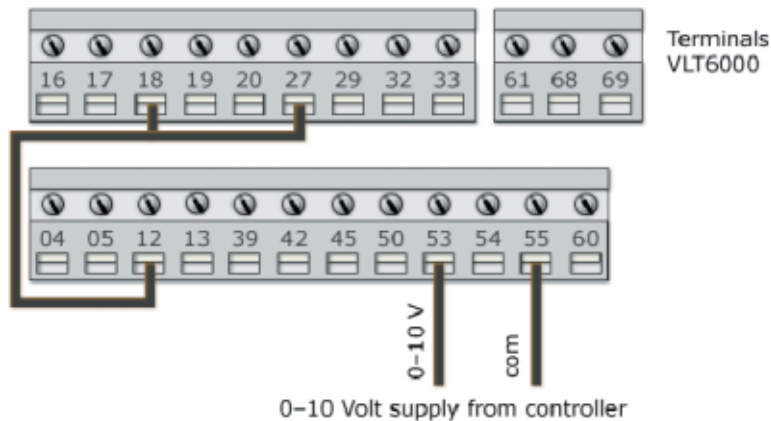
Not working?

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 12 and 18 can be replaced by a contact from the controller.

Press **[DISPLAY MODE]**.

Three values are shown at the top of the display; parameter settings 008, 009 and 010.

The value on the far right is the voltage connected to terminal 53.