

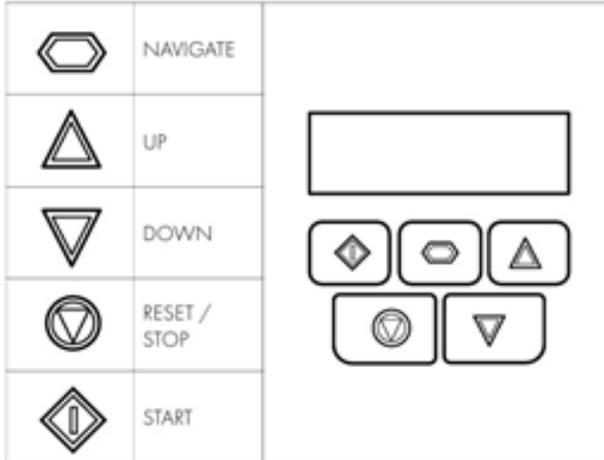


NORTHERN FAN SUPPLIES LTD

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ODE-3 Optidrive Installation Instructions 1ph to 3ph Models

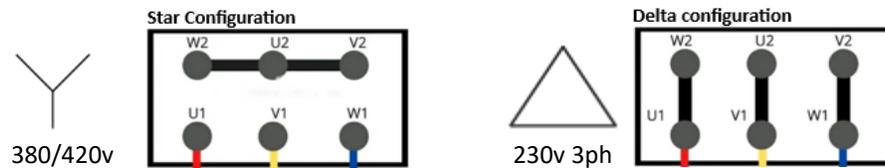
Keypad buttons



Parameter List

P-01	Maximum Speed Limit
P-02	Minimum Speed Limit
P-03	Ramp up time
P-04	Ramp down time
P-05	Stop Mode
P-06	Energy Optimiser
P-07	Motor Rated Voltage
P-08	Motor Rated Current
P-09	Motor rated Frequency
P-10	Motor Rated Speed
P-11	Low Frequency Torque Boost
P-12	Primary Command Source

- Check the fan/motor wiring is configured to accept a 230V 3ph supply and the Inverter, fan/motor are wired correctly. (99% of our fans require the motor to be linked in Delta), examples of wiring can be found below, if in doubt please call us 0161 864 1777



- Make sure power to the inverter is switched off, remove the purple cover and Link Terminals 1 and 2, put the cover back on.
- Turn the power on to the inverter, stop will appear on the display, Press the Navigate button for 2 seconds to access the parameters – P-01 will appear
- Press the Navigate button to access P-01, the Max Speed is set to H 50.0, if you want to change the maximum running speed use the up and down arrows to change it. Press the middle button when the desired frequency is set. (H 50.0 is 100% of the motor running speed, we would not recommend running the motor/fan any faster than 50.0) P-01 will appear, press the up arrow, the Display will change to P-02
- Press the Navigate button to access P-02 – H0.0 will appear, use the up arrow change the minimum speed, we recommend not setting any lower than H 10.0. (H 10.0 is 20% of the motor running speed) Press the Navigate button to set the speed. P-02 will appear, press the up arrow, the display will change to P-03
- Press the Navigate button to access P-03 – 5.0 will appear, use the up arrow to change the Ramp Up speed, we recommend changing to 20 seconds for 4pole motors and 40 seconds for 2pole motors, press



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the Navigate button when the desired speed is reached, P-03 will appear. Press the up arrow, the display will change to P-04

- Press the Navigate button to access P-04 – 5.0 will appear, use the up arrow to change the Ramp Down speed, we recommend changing to 20 seconds for 4pole (1400rpm running speed) motors and 40 seconds for 2pole (2800rpm running speed) motors, press the Navigate button when the desired speed is reached, P-04 will appear. Press the up arrow, the display will change to P-07
- Press the Navigate Button to access P-07 – 230 should appear. If it doesn't, use the up and down arrows to change the value to 230. Press the Navigate button, P-07 will appear, press the up arrow to change to P-08
- Press the Navigate button to access P-08 – The value shown is the Amp rating of the Inverter (found on the inverter name plate). We recommend changing the value to match the 230V Full load current for the Fan/Motor, usually found on the fan name plate. Use the up and down arrows to enter the value. Some fans/motors may only show the full load current at 380/420V 3ph, to get the right value x the amp rating by 1.73. Press the Navigate button, P-08 will appear. Press the up arrow until the display shows P-10
- Press the Navigate button to access P-10, 0 will show on the display, change the value to match the running speed of the fan/motor (found on the fan/motor name plate rpm). Once the right value is shown press the Navigate button, P-10 will appear, press the up arrow to change to P-12
- Press the Navigate button to access P-12, 0 will show on the display change to number 1, press the navigate button, P-12 will appear. Press the Navigate button for 2 seconds. Stop will appear
- We recommend auto tuning the motor, to auto tune press the Navigate button for 2 seconds, P-01 will appear, press the up arrow to reach P-14, 0 will show, use the up arrow and change to 201, press the Navigate button, P-14 will appear, press the up arrow until you reach P-51, press the Navigate button, 0 will show, use the up arrow to change to 1, press the Navigate Button, the Auto tune will automatically start. Once finished press the Navigate button and Stop will be displayed.
- Our basic set up is complete, Press the Green start button, the inverter will run the fan/motor up to the pre set Minimum speed
- Use the up and down arrows to change the motor speed
- Press the Red Reset/Stop button to stop the fan/motor

***If using a remote potentiometer (speed controller), the enable will be connected to terminals 1 and 2 and the link should be removed, please ensure the power is switched off when changing the wiring. Parameter P-12 will need to be changed back value 0, to access parameter P-12 follow the instructions above. A wiring diagram to our standard potentiometer can be found below:**



Remove link for this option

Potentiometer terminals

Switch	Switch	10v	O/P	0v
1	2	5	6	7

ODE-3 Optidrive terminals