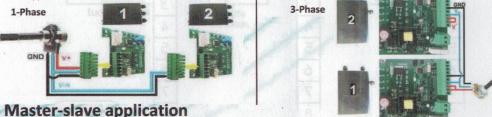
Analogue speed control parallel connection

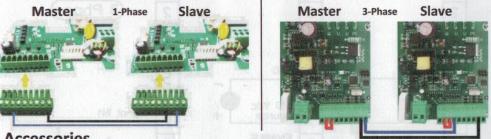
If two or more fans are installed in the same compartment it is important that they start at the same time, otherwise the first fan starting forces the other to run in backward rotation. The fans are able to start with a low backward rotation (speed < 200 rpm), but they stop if the backward rotation is higher due to a built-in auto-protection feature. With the parallel connection of the analogue input, this problem can be prevented.



Two or more DDMP fans in parallel can run also in a MASTER and SLAVE configuration.

In this configuration the slaves run at the same speed of the master.

- 1. configure the Master DDMP fan in the preferred operating mode;
- configure the Slave DDMP fan in Master&Slave mode → Holding Register 34: Input Type=3);
- 3. the Master DDMP must have the Holding Register 46 set at 0 = TACHO. Refer to the DDMP manual for more details.



Accessories

Bluetooth module Modbus converter Potentiometer Diff. Press. Transducer









The speed is set by modifying the register 66 (volatile)

The constant airflow is set through the analog signal

The fan is configured as slave and follows the speed of the master.

The constant airflow is set by modifying the register 66 (volatile)

The constant airflow is set by modifying the reg. 39 (permanent)

The speed is set through the analog signal The speed is set by modifying the register (permanent)



CONFIGURATION SOFTWARE!

freeware software is available from the Company website (product download area) performance monitoring of all Nicotra-Gebhardt electronic fans. The table on the left lists the possible operating modes. (Holding Register 34: Input Type)

olding Register 34: Input Type [Adim] (Deafult = 1 -> Analog Speed Control)

nis register defines all the possible operating modes.

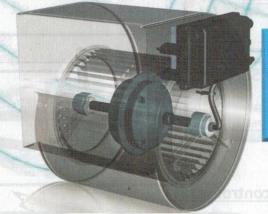
- Modbus Speed Control:
- Analog Speed Control:

- The emulation is set through the analog signal The emulation is set by modifying the register 66 (volatile) on: The emulation is set by modifying the register 30 (permanent)
- 11- Modbus Ref. PID Closed Control Loop: The PID ref. is set by modifying the register 66 (volatile)
- 12- Modbus Fixed Ref. PID Closed Control Loop: The PID ref. is set by modifying the register 50 (permanent

lange: $0 \le InputType \le 12$

NICOTRA Gebhardt DDMP

Quick Installation Guide





Complete documentation Documentazione completa Komplette Dokumentation Documentation complète Documentación completa

http://www.nicotra-gebhardt.com

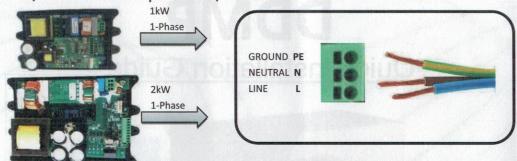


985739 Rev.04 06/2019

DOWNLOAD

Step 1 - Plug the power supply inside the main board box

220/240V ± 10% 1-phase 50/60 Hz

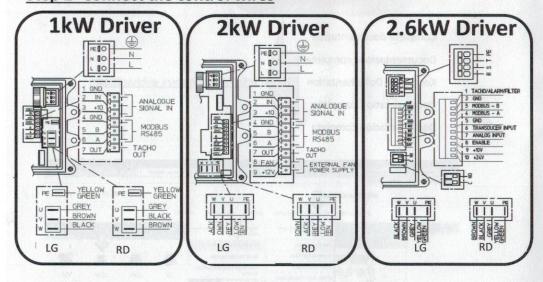


400V ± 10% 3-phase 50/60 Hz





Step 2- Connect the control wires



Warning: do not disconnect power supply to switch off the fan: disconnect the "Signal IN" from +10V out instead. Disconnecting and re-connecting repeatedly the power supply may damage the driver unit

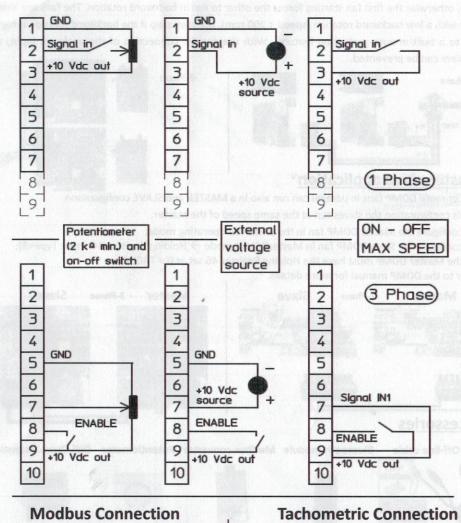


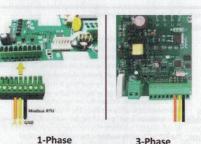
1 kW 1-Phase, 2 kW 1-Phase and 2.6kW 3-Phase drivers have different socket configurations



Default driver configuration is **Analog Speed Control**

Examples of analogue control connections





3-Phase

