

QUICK STARTUP GUIDE



WARNING

This guide does not replace the instruction and operating manual. Read the manual carefully before installing and using the product. Improper use of the product can cause personal injury and damage to property and may void the warranty.

Startup checklist

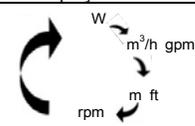
	Operation	Pump Display
1	Mount the pump in the system according to the flow direction indicated on pump housing and with motor housing in one of the allowed orientations shown in figure 1. Make sure the pump is aligned with the system piping.	-
2	Connect the pump to power supply. See figure 3. Make sure that the nameplate electrical ratings match the power supply.	-
3	Connect all the needed auxiliary input/output signal wires to the pump. See figure 3. Power and control wiring must be run in separate channels.	-
4	Fill the system and vent the air	-
5	Open all valves in the system to facilitate proper air venting	-
6	Power the pump and wait (refer to the advanced functions manual in case of errors and alarm codes on display)	The display and all the LEDs switch-on for 1 second and then a sequence of submenus for advanced functions will be shown.
7	Wait: (refer to the Electronic Drive Manual in case of error and alarm code on display)	The display shows: 5DEG 4DEG 3DEG 2DEG 1DEG
8	Wait: (refer to the instruction manual and/or the electronic drive manual in case of error code on display or for excessive noise and any abnormality within the system) In case of residual air inside the system creating noise or high vibration: 1. vent the system again 2. recall the automatic air venting procedure by pressing the up and down arrows on settings button 5 for 2 seconds (see fig. 2)	At the end of the air venting procedure, the pump starts to run with default settings
9	Set the control mode of the pump, by short pressing button 1 (see figure 2).	On control panel, the chosen mode LED will switch-on:  Constant pressure mode  Proportional pressure mode  Constant speed mode  Night mode
10	Short press the button 5 (see figure 2) to display the actual setpoint	On display the actual setpoint starts to blink
11	Change values as desired with button 5 (see fig. 2)	On display the setpoint changes
12	Change values as desired with button 5 (see fig. 2)	The setpoint stops blinking on display and the previous parameter will be displayed
13	To change the displayed unit of measurement, press the button 3 (see fig. 2)	
14	To change the unit of measurement of head or flow, press the button 3 for more than 1sec. (see fig. 2)	• Flow: $m^3/h \leftrightarrow gpm$ (US) • Head: $m \leftrightarrow ft$
15	The user interface can be locked/unlocked by simultaneously pressing and holding the setting button 5 and the parameter button 3 for two seconds. The user interface will be automatically locked after ten minutes of pressing the last button.	By pressing any button when the user interface is locked, the display shows  Unlocking the user interface the display shows: 

Fig. 1 – Allowed pump installation positions

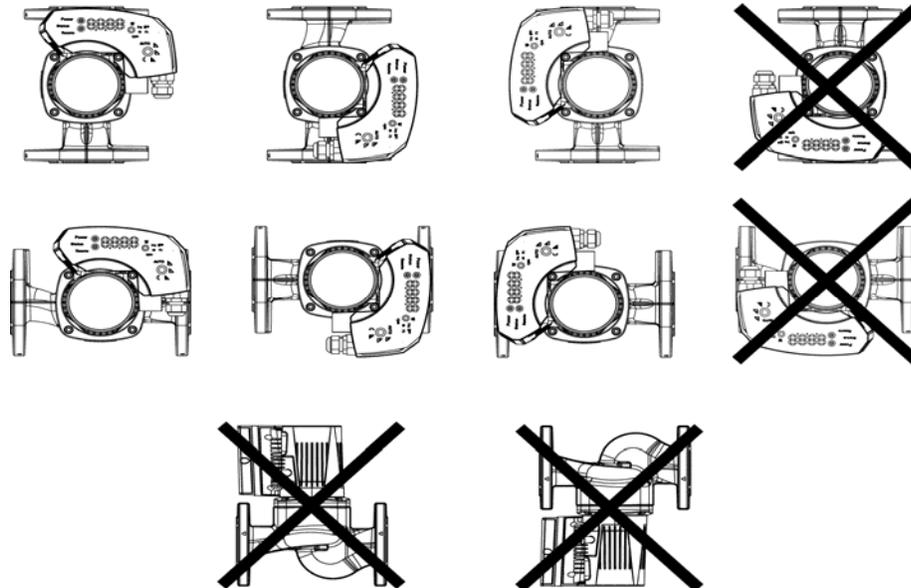


Fig. 2 – User interface description

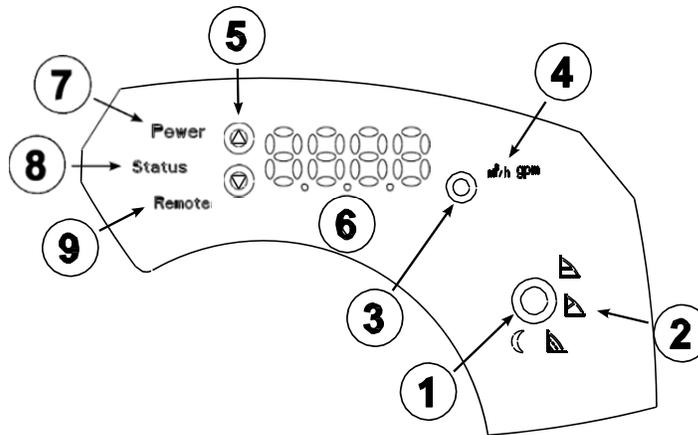


Fig. 3 – Terminal block description

Terminal No.	Description
1-2-3	Power Supply
4-5	Fault Signal dry contact (max 250VAC – 2A)
6	Auxiliary DC supply +15V (max 40 mA)
7-8	Analog input 0-10V DC
9-10	External pressure sensor input 4-20mA
11-12	Start/Stop input
13-14	External temperature probe input
15-16-17	Primary RS-485 channel
18-19-20	Secondary RS-485 channel

