



N2P Pump Controls Titan Pump Controller Installation Guide

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OVERVIEW:

An LCD alarm panel shows pump status; any active alarms; and real-time voltage, current, and analogue signal. A flashing red light indicates a pump or system fault.

Set your maximum current draw and programme pump operation, including any timed operation; level faults; and duty, assist, or standby control.

CONTROLLER SPECS:

The controller is rated to 200–260 VAC, 5kW, 50Hz.

Rated to IP64

All electrical work must be carried out per required wiring regulations.

Refer to attached wiring and circuit diagram when installing the controller.

Overview

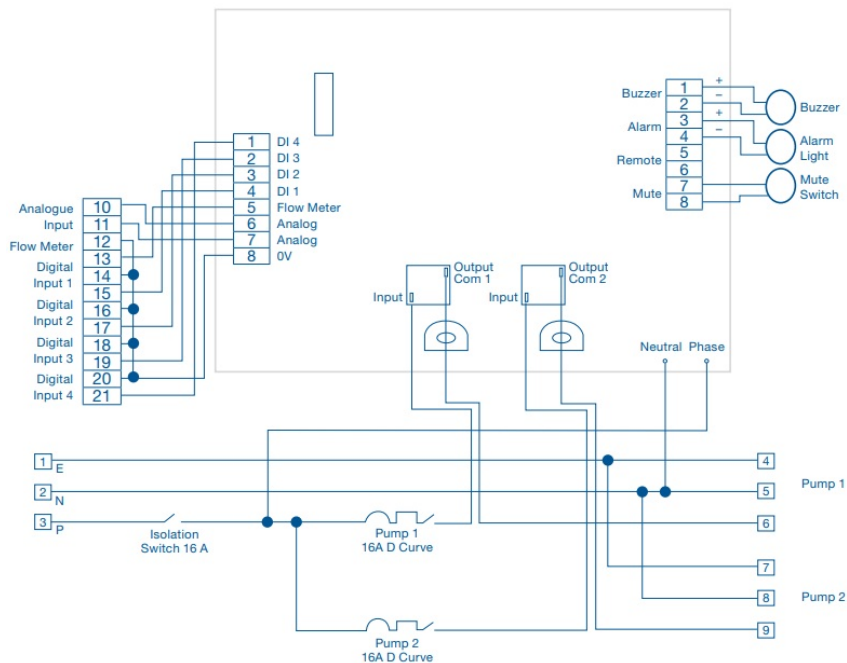
Installation Instructions

Quick Set-Up

Menu Structure

1. Date and Time
2. Maximum Current settings
3. Run Window settings
4. Duty/Standby/Assist
5. Float Fault settings
6. Timed Pumping settings

Installation Instructions



Ensure all floats are connected as normally open (NO) and as an open circuit when the float is in the down position

1. Open the controller housing and internal panel. Take care not to damage the cable from the LCD screen and main PCB.

2. Connect the power supply to terminals

1, 2, and 3 (Earth, Neutral, and Phase respectively).

3. Connect Pump 1 to terminals 4, 5, and 6 (Earth, Neutral, and Phase respectively).

4. Connect Pump 2 to terminals 7, 8, and 9 (Earth, Neutral, and Phase respectively).

5. If a low-level float is being installed, wire into terminals 13 and 14.

6. Connect the start/stop float to terminals 16 and 17.

Note: If you are not using a start/stop float, short these terminals out and set the PS Float Fault to Not Used.

7. If you have an assist float, connect it to terminals 18 and 19. If this input closes, it will start the standby pump.

8. Wire the high-level float to terminals 20 and 21.

9. If a BMS/SMS unit is being installed, there will be additional terminals labelled 22 and 23. This is a voltage free connection, rated to 4A at 230V. This circuit will close when there is a fault.

If the BMS output is added, be sure to select the Alarm Light settings, under Outputs, to Used Solid.

10. Power up the controller and test it by lifting the start/stop float for 5 seconds.

This will start the duty pump and change the pump's status on the LCD screen.

11. Lift the high-level float and hold it for 5 seconds. This will cause a high-level alarm message to display on the LCD.

The buzzer will sound and the alarm light will flash. Pushing the mute button will silence the alarm.

To ensure the correct settings for your pump, refer to the following pages.

Quick Setup

The controller's menu structure is shown to the right. To access each parameter, move the cursor (>) to the parameter name and press Enter. This will take you to the next level of parameters or into the parameter itself. When you have changed a parameter, press the Enter key. To return to the previous menu, press the Menu key (M).

The Inputs section allows you to select each input and what it will be used for.

The factory settings are:

Digital Input 1:

Not Used

Digital Input 2:

Pump Start A (start/stop float)

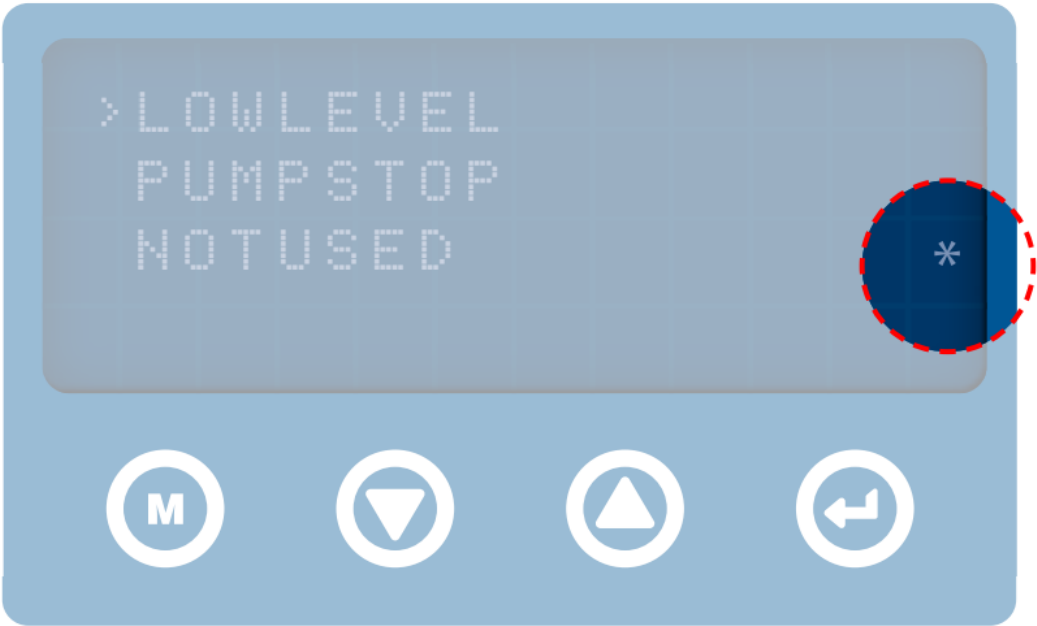
Digital Input 3:

Pump Start B (assist float) – Optional

Digital Input 4:

High Level (high-level float)

An asterisk (*) indicates the currently selected setting. The Digital Input 1 screen is shown below. The asterisk (circled in red) shows that this input is Not Used.



Menu Structure

Inputs
Digital Input 1
Digital Input 2
Digital Input 3
Digital Input 4
Analogue Input
Flow Meter
HL Float Fault
PS Float Fault
Mute
Outputs

Pump 1
Pump 2
Alarm Light
Alarm Buzzer
Remote Alarm Panel
Telemetry
Parameters
Date and Time
Start Delay
Max Run Time
Alarm Delay
Manual Run Time
Low Voltage Alarm
Maximum Current
No Flow Alarm
Run Window
Dry Run Protection
Duty / Standby / Assist
Mute
Timed Pumping
Password Protection
Analogue
Reset
History
Voltage
Current
Run Time
Analogue Reading
Total Flow
Pump Starts
Alarms
Alarm History

Typically the only settings that need checking are Date and Time, Maximum Current, Run Window (optional), and

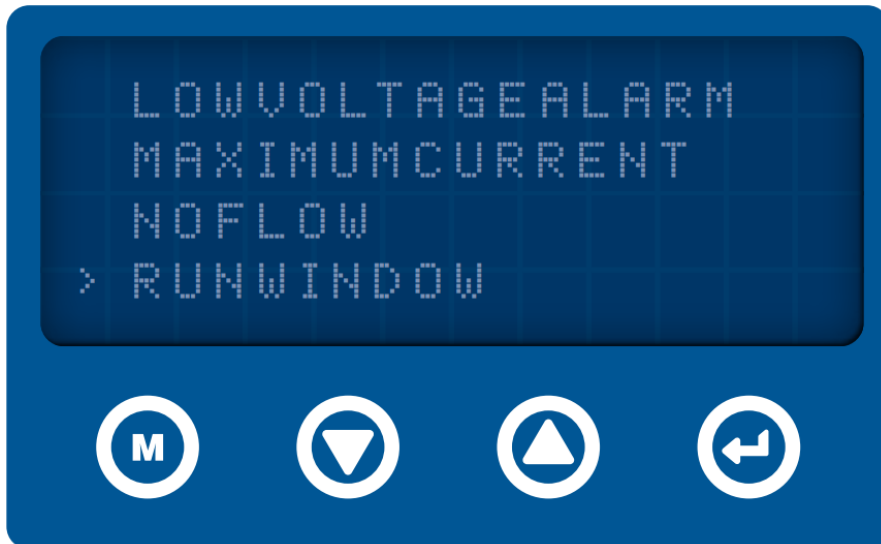
Duty/Stdby/Assist.

Date and Time

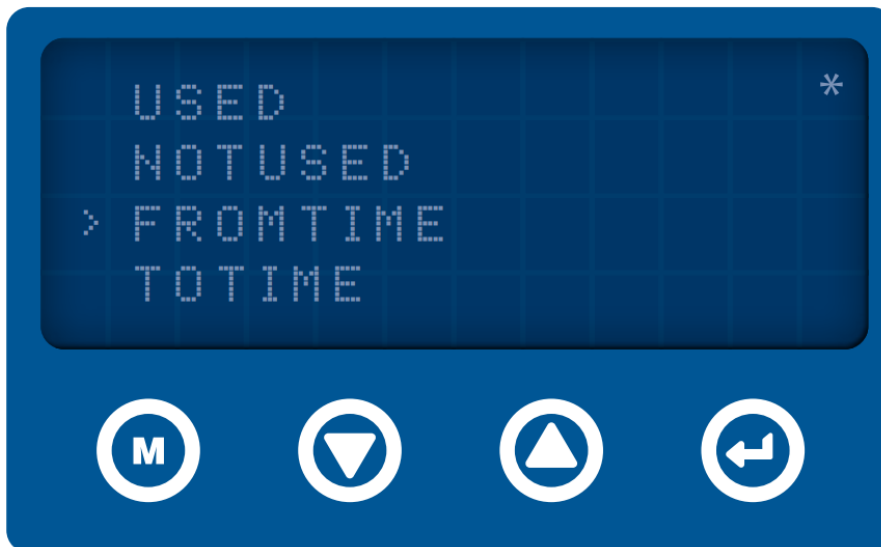
To update the time, select Parameters on the LCD screen. Once in Parameters, select Date and Time. In this screen, you can change the day, date, and time using the up and down arrow keys. Once satisfied with each parameter, press Enter to move to the next. When the last parameter has been entered, you will be returned to the Parameters menu.

Run Window settings

Use Run Window to programme your pump to run at a specific time of day, e.g., from 23:00 to 05:00. Note: If the assist or high-level float are activated, the run window will be overridden and the pump(s) will start.

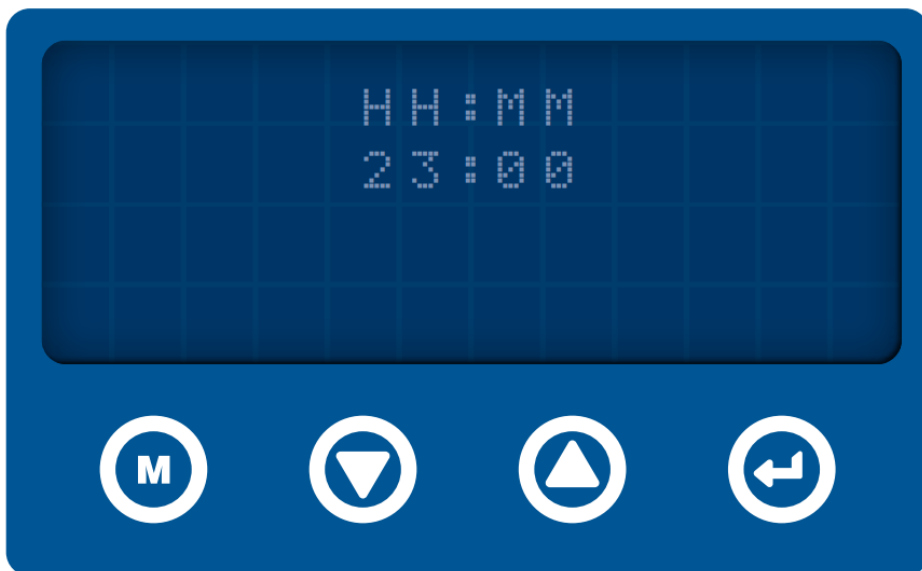


To programme the run window, select Parameters on the LCD screen then scroll down and select Run Window.



In this screen, select Used by moving the cursor to Used and pressing the Enter Key.

Then select From Time, using the up and down arrows to set the desired values for hours and then minutes. Press Enter to accept each value or M to exit the screen without changing it.

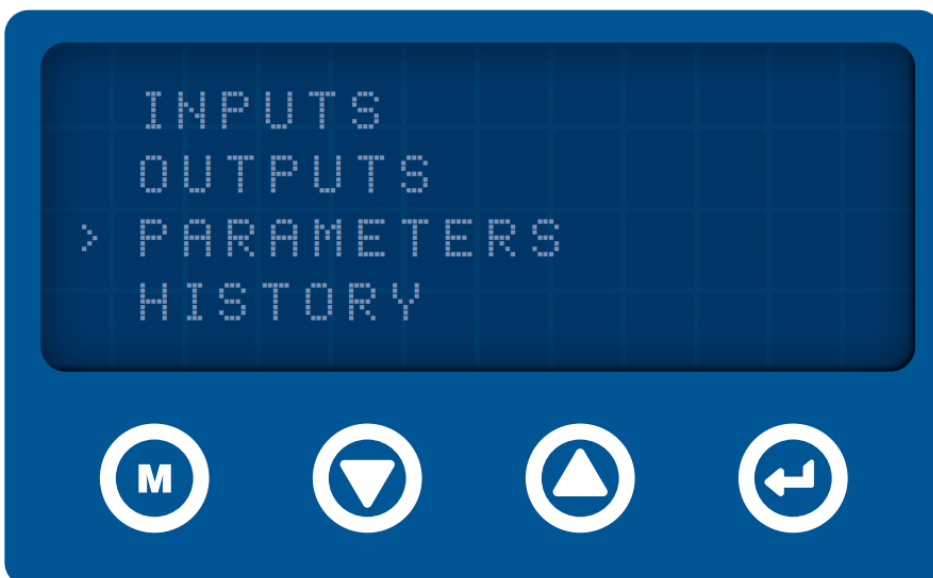


Repeat the process to set the desired To Time. Make sure the controller is set to the correct time by checking the Date and Time screen.

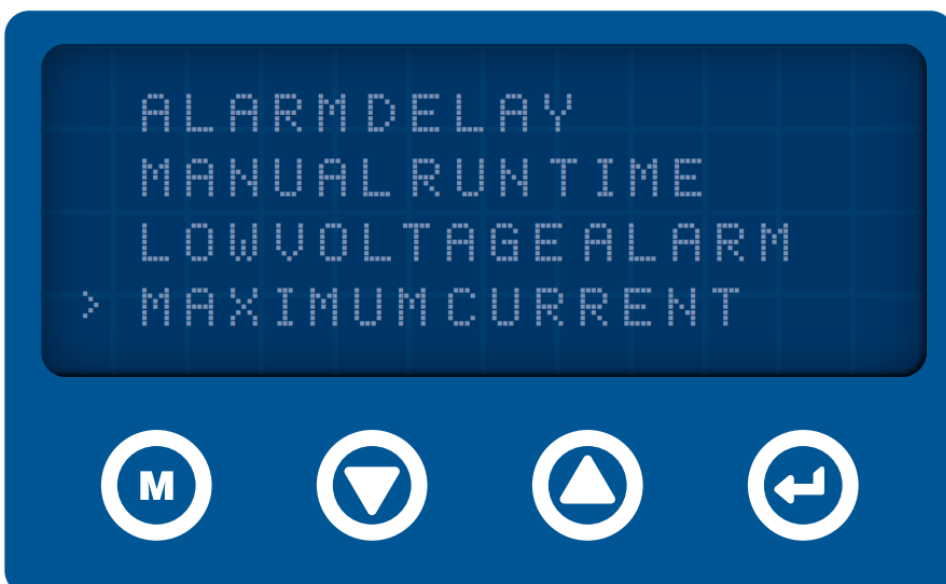
Maximum Current settings

To check maximum current, select

Parameters on the LCD screen then scroll down and select Maximum Current.



Select Set High/Enable to set the overload current using the up and down arrows. Press Enter to accept the new value or M to exit the screen without changing it.



> SETHIGH/ENABLE
NOTUSED



> 14 A



Duty/Standby/Assist

Select Duty/Stdby/Assist in the Parameters menu. In this page select either Timed or No. of Starts. When in the Timed screen, change the hours by using the up and down key. This is the number of hours between pumps changing duty. If the No. of Starts is selected, use the up and down key to change the number of starts required before the duty pump changes.

INPUTS
OUTPUTS
> PARAMETERS
HISTORY



NOFLOWALARM
OVERPRESSURE
DRYRUNPROTECTION
> DUTY/STDBY/ASSIST



> TIMED
NO.OFSTARTS
NOTUSED

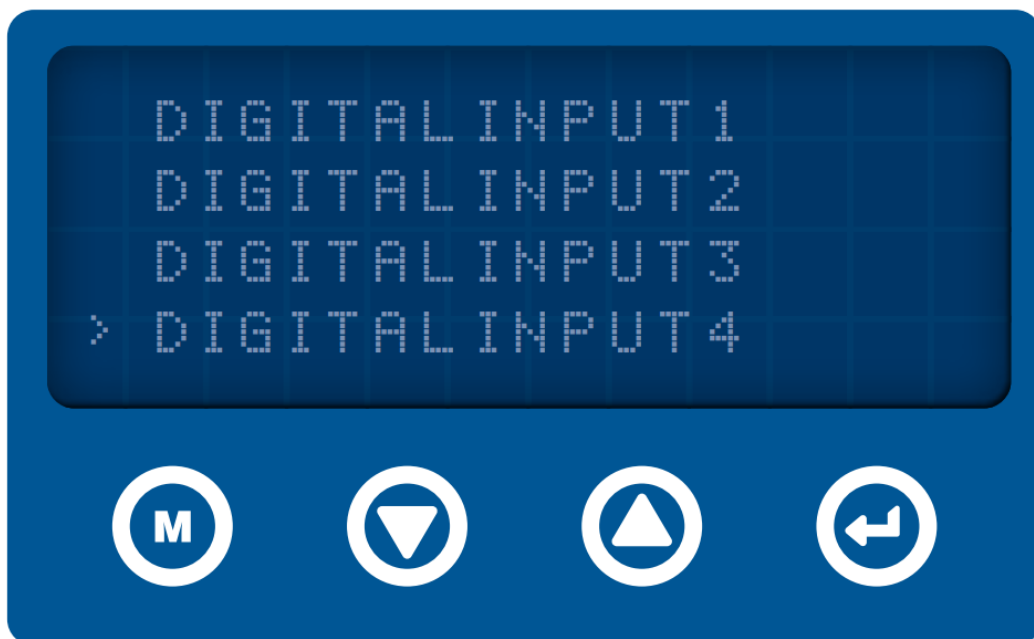


> 24H

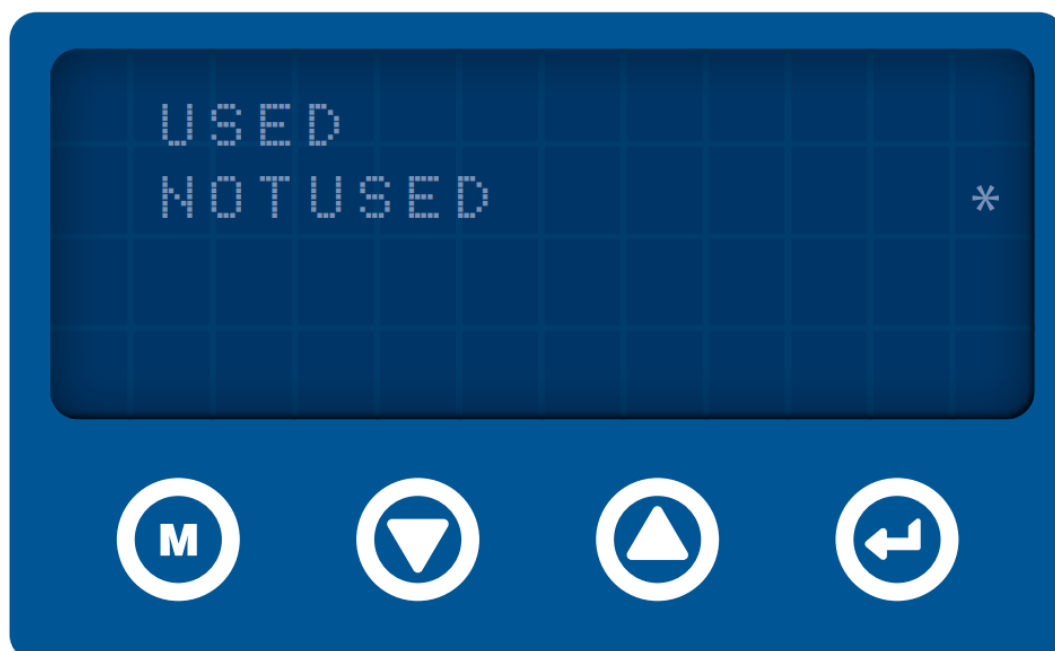
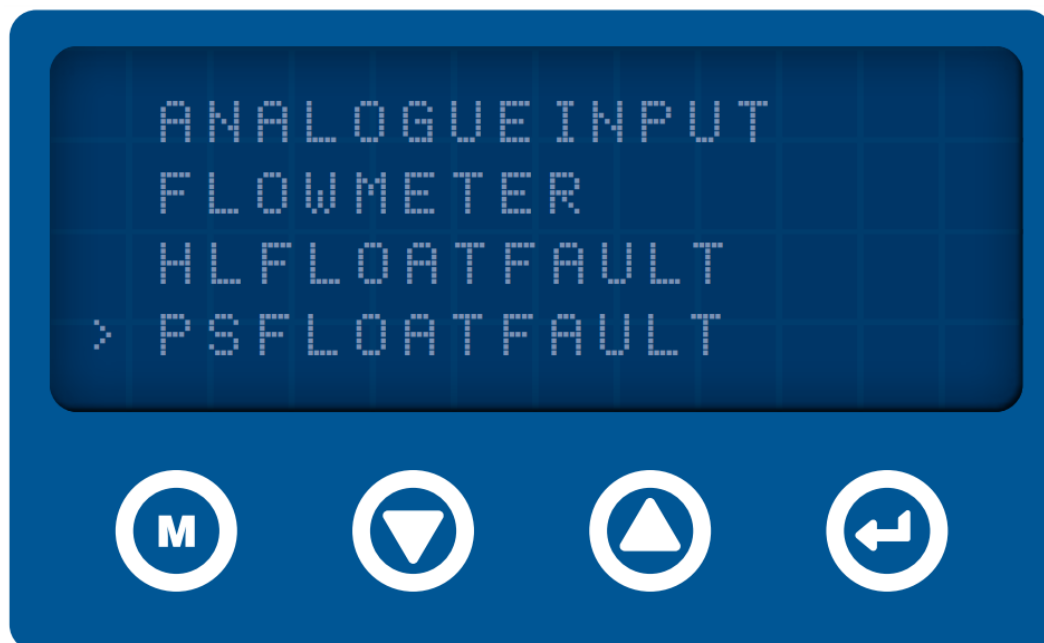


Float Fault settings

If you are not using a start/stop float input and these terminals are shorted out, you will not be able to use No. of Starts to change the duty pump. You will also need to change the PS Float Fault setting by entering Inputs then selecting PS Float Fault and Not Used.



When finished, return to the Menu screen, which will revert to the Status screen after about 10 seconds.

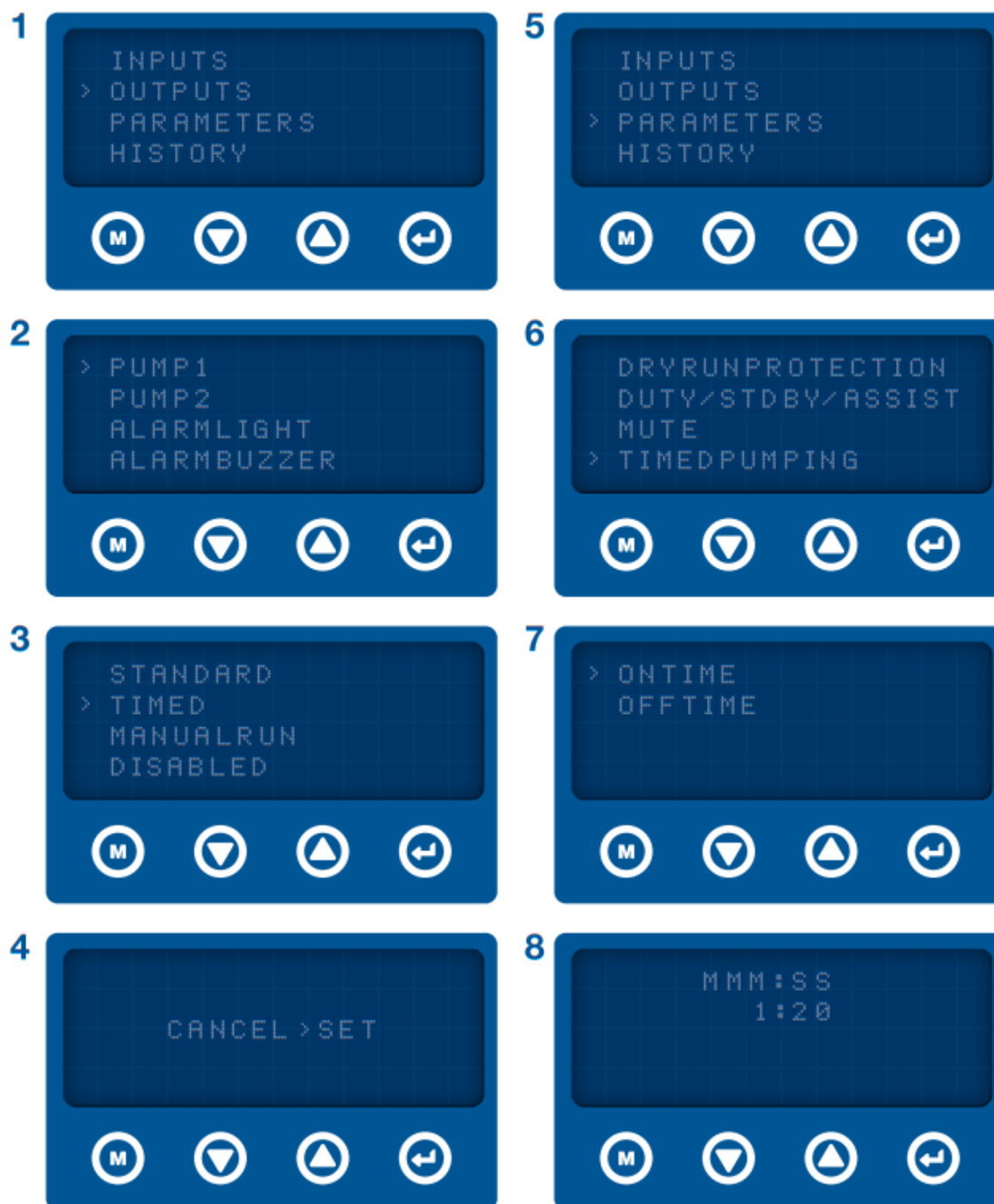


Timed Pumping settings

To set your pumps to run at a specific on and off time, select the Outputs option from the main menu then select

Pump 1, Timed, Set and press Enter. You have now set Pump 1 to operate in Timed mode. For a Duty/Standby installation, repeat the process for Pump 2.

To set the ON and OFF time, go to Timed Pumping in Parameters and select On Time, using the up and down arrows to adjust hour and minute values. Once satisfied, press Enter. Repeat the process to set Off Time. The maximum ON or OFF time is 999 minutes and 59 seconds.




Any questions about installation? Please visit our **website** : www.pumpcontrols.com.au | www.pumpcontrols.co.nz



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Documents / Resources

	<p>N2P Pump Controls Titan Pump Controller [pdf] Installation Guide N2P, N2P Titan Pump Controller, Titan Pump Controller, Pump Controller, Controller</p>
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References

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