



Three-Phase, Dual Pump Control and Protection Module

BIA-DPC3-40 PN 802692

BIA-DPC3-11 PN 802693

BIA-DPC3-15 PN 802694

Installation and Operation Manual Rev 6.1



1. Introduction

Thank you for choosing a Bianco iCon DPC (Dual Pump) Intelligent Pump Controller.

A DPC controller provides significant protection for single or dual, direct start (DOL), three phase pumps from 0.75kW – 15kW

The DPC Controller has a number of pre-programmed control and operation modes to suit a variety of applications.

The controller is easy to set up with a push button calibration.

The LCD screen displays the pump running state and provides the user a wealth of useful information.

A DPC controller is particularly useful where there is the need to control and protect dual pump installations managing the automatic operation by a variety of switching methods without the need to create a one-off control solution.

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3. ISO 7010 Symbols used in this manual

	Warning - Electrical safety
	Warning – Potential consequences of use outside of intended application(s). Includes environmental condition warnings.
	Mandatory warning
	Warning to disconnect power
	Read carefully

4. Warnings and Cautions

	Read the manual carefully before starting and retain for future reference.
 	Prior to starting installation or maintenance the controller must be disconnected from the power supply. Allow the internal electronics to discharge before opening the cover
	Any changes or modification to the wiring must be carried out by competent, skilled and suitably qualified personnel only.
	A qualified electrician should correctly size and install circuit breakers to protect the power supply. The fitment of additional surge protection is recommended.
	Never open the cover while controller is connected to electrical supply. Disconnect and allow the internal electronics to discharge before opening the cover
	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
	Ensure the controller is a suitable size for the pump motor (see Section 6. Technical Data). Size according to P1 power.

5. Quick guide to common button functions

Switching to Manual mode (controller locked)



Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.

The display will indicate **MANUAL** MODE. Any operational pumps will stop.



Individual pumps can now be operated manually by pressing A Pump or B Pump Start / Stop as required.



The display will indicate:

- the voltage available and
- the current (amperage) the pump is drawing.

If the amperage is outside of the programmed range the controller will stop the pump and display the relevant error code.

Last 5 error messages

A Pump: Hold down **A STOP** then press **MODE**

B Pump: Hold down **B STOP** then press **MODE**

*Repeated presses of **MODE** will cycle through the last 5 errors*

Alarm Test

In **MANUAL** mode and pump(s) not operating press **MODE** for 3 sec to test the alarm.

Alarm Mute

AT ANY TIME press **A STOP** to mute the alarm.

Returning to Automatic mode.

Short press **MODE** The display will indicate that the unit is in **AUTO** mode.

Pump Protections

The control unit monitors voltage and current continuously. With the pump(s) running, if a situation arises where the pump is operating outside of its programmed parameters i.e., dry run, overload, over voltage, etc, the control panel will shut down the affected pump and switch to the second.

The non-critical parameters will automatically re-set after the programmed period.

5. Quick guide to common button functions cont.

Pump Stalled

Pump stall alarms are considered a CRITICAL CONDITION. Generally it indicates something jamming the impeller or, in the case of macerating pumps, the cutting mechanism.

In the event of pump stall, open phase or other serious failure the controller requires manual resetting (power cycling) following pump inspection.

Pump accumulative running time

The DPC controller tracks how many hours each pump runs which enables the pump user to analyse the pump running conditions and schedule maintenance.

Ensure no pump(s) are running

Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.
The display will indicate **MANUAL** MODE. Any operational pumps will stop.

PRESS and HOLD the **STORE** key. Press **A STOP** or **B STOP**

The control panel will beep and display the accumulative pump run time.

Press **A STOP** or **B STOP** to exit.

Pump Disable/Enable

The controller must be in **AUTO** mode

Press **A STOP** OR **B STOP** AND **MODE** TOGETHER to disable a pump.

Press **A START** OR **B START** AND **MODE** TOGETHER to enable a pump.

Pump Calibration

Hold for **MODE** **STORE** 10 seconds.

The display will indicate **MANUAL** MODE.

Press **A START** or **B START** and allow the pump to run until the pump is running at its duty point and the amps stabilize.

Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

6. Technical Specifications

Controller Modes	Automatic or Manual pump operation for dual pumps. Liquid level control via float switch, level transducer or pulse electrode probes. Pressure control via pressure switch or transducer
Protection functions:	Dry run (underload), Overload, Pump Stalled, Transient surge, Under voltage, Over voltage, Repeated start, Over temperature, Short circuit
Input Voltage	415V +5% -10%
Rated output power	DPC 3-40 2 x 0.55 – 4 kW P2 power (rated up to 12A input) DPC 3-11 2 x 0.55 – 11 kW P2 power (rated up to 25A input) DPC 3-15 2 x 0.55 – 15 kW P2 power (rated up to 32A input)
Working temp	-25 to +55 deg C 20% to 90% relative humidity, non-condensing
Controller size	302mm wide, 240mm tall, 120 deep. IP54
Trip response times (set)	Open phase – Less than 2 sec Short circuit – less than 0.1 sec
Trip Voltage (User adjustable)	Over voltage – Default = 115% of rated input voltage Under voltage – Default = 70% of rated input voltage default
Trip response times (User adjustable)	Dry run (Under-load) 6 sec Overload Default = 5 min Under Voltage Less than 5 sec Over voltage Less than 5 sec
Recovery times	Dry run (Under-load) 30 min default Overload 30 min default Under Voltage 5 min default Over voltage 5 min default
RS485 Technical interface	RS485 Bus Interface: asynchronous semi duplex 1200,2400,4800,9600 bps (default 9600bps) MODBUS protocol (RTU)
Alarms	Visual and audible alarm. Supports external alarm connection <i>12V 3W DC</i>



Avoid installing the DPC where it could experience the following conditions:

- i. Where there is significant vibration and/or mechanical shock.
- ii. Where it could be exposed to corrosive liquids or gasses, or to flammable materials, solvents etc.
- iii. Extreme heat and cold. Operating range -25°C - 55°C.
- iv. Protect the controller from rain, moisture, humidity or dust



Remote Alarm

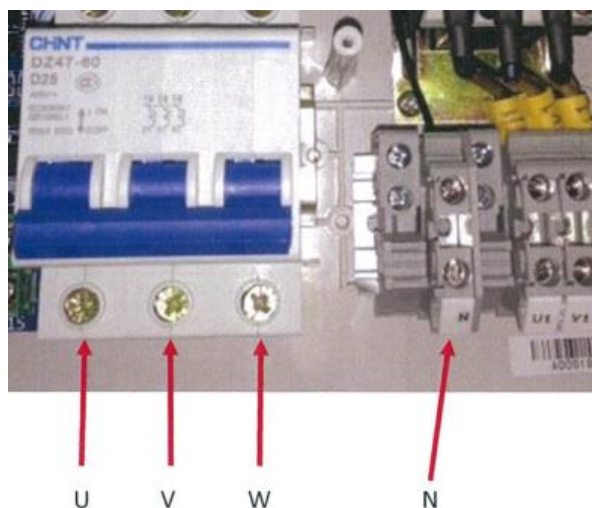
1. Position alarm on top of the enclosure and feed cable through hole with grommet
2. Fix alarm in place with hardware supplied
3. Mount controller inside enclosure using hardware supplied
4. Feed alarm cable through one of the cable glands and connect to terminal strip J22
5. Set dip switch beside J22 in the down position (In-built alarm OFF)
6. J22 terminals rated 12VDC 125mA, 1.5W



Terminal strip J22 Toggle switches

Cover

Part Number	Item Code	Description
BIA-iCOVER	802700	Metal enclosure for control panel with lockable door. Includes 803417 audio and visual alarm. 500W x 400H x 200D

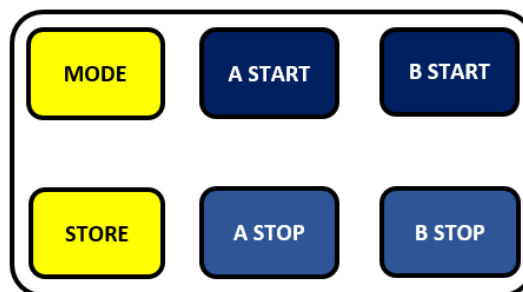
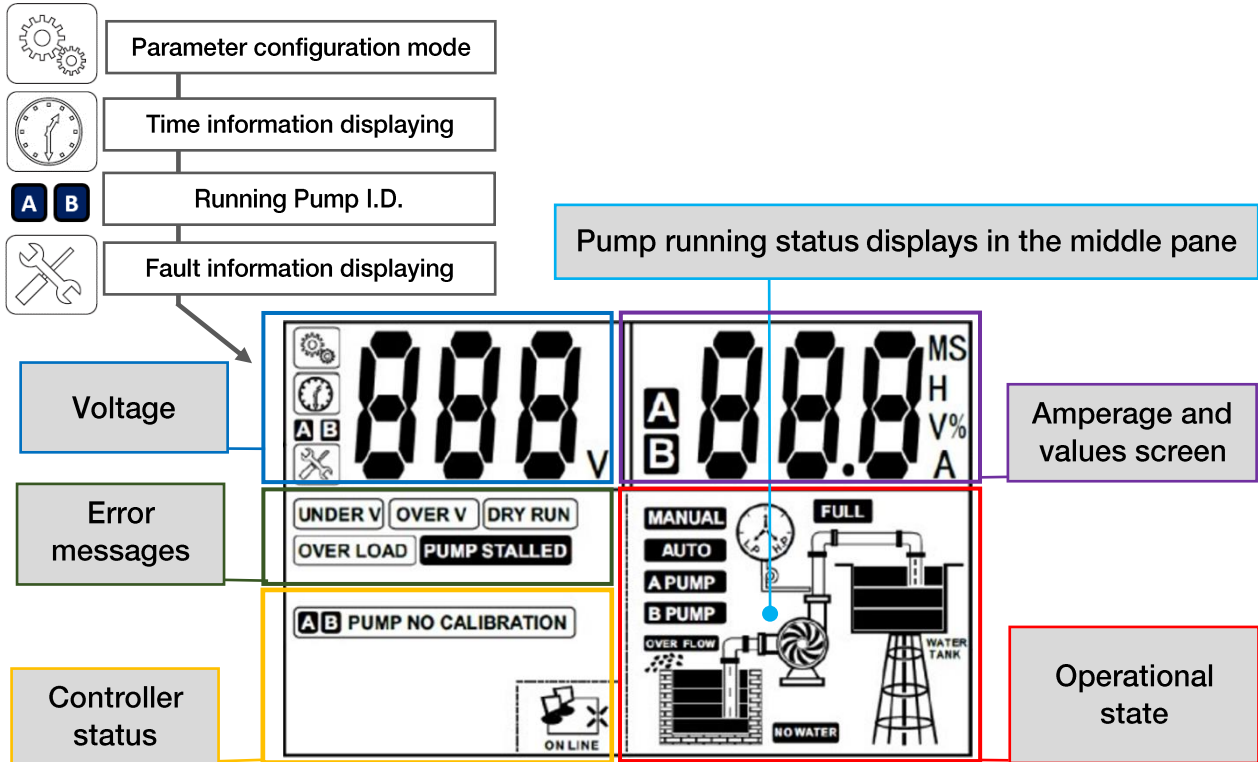


On three phase control panels the alarm will not sound or flash if the neutral has not been connected



7. Display

The DPC display provides a real time indication of the operational mode and the current state of the controller, including real-time voltage/current and any error messages.



The controller is managed using the buttons on the front cover and a sequence of short, long and combination button presses as detailed in this manual



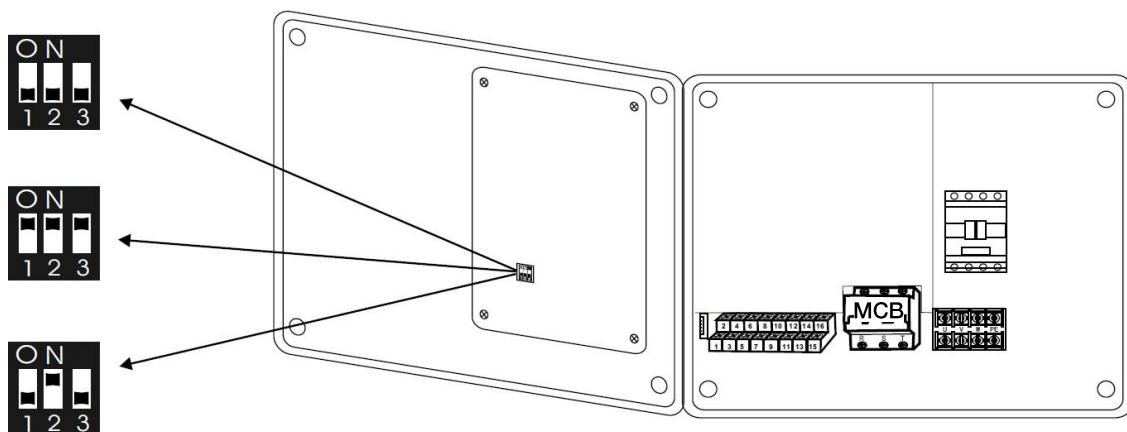
Remote monitoring and (limited) control can be achieved using the SC2 remote monitor

7. Display con't

The DPC controller operates according to pre-programmed logic applied to each 'mode'.

Changing the Dip Switches inside the controller then **cycling the power** will activate the selected logic mode.

Examples of common applications are detailed at the rear of this manual but with an understanding of how the controller responds to various inputs in each of the modes the controller can be used for application other than what is suggested.



The appearance of the front display changes according to each mode and provides a visual indication to the state of the input signals.

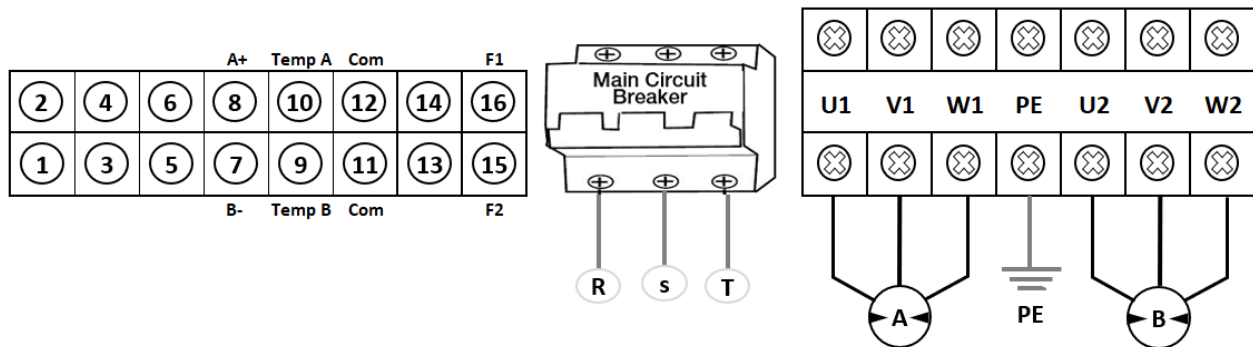
	Lack of source water		High pressure Low pressure
	Source water full		Destination low
	Overflow		Destination full

8. Electrical Connections

Always use an electrical outlet that is protected by Residual Current Device (RCD) Safety Switch with a trip current of 30mA or less. A Safety switch is required by Australian/New Zealand Standard AU/NZS 60335.1-2011.

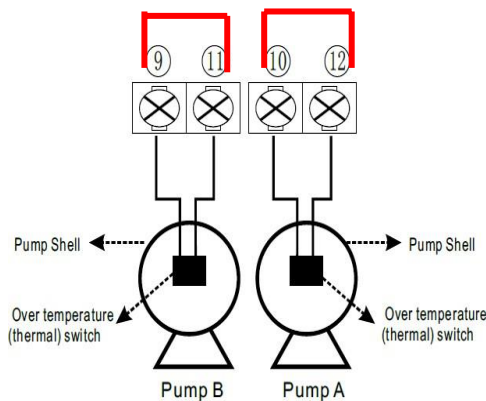


This must be connected by a suitably qualified technician.



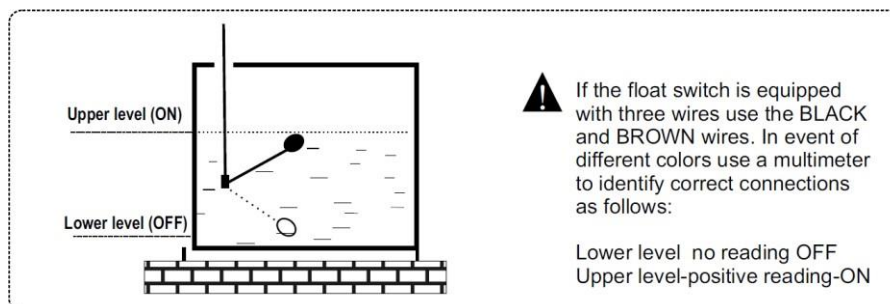
Other terminals.

Terminals 7 & 8 MODBUS communication to Slave Controller or BMS
Terminals 15 & 16 N.O. Close on fault

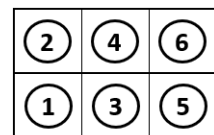


Terminals 9 & 11 and 10 & 12 for connection to motor thermal protection (microtherms) where available.

If the pump isn't fitted with microtherms, leave jumper wires in.



Float Down NC, Float Up NO



Terminals 1 – 6 are used to connect the control inputs (floats, probes, switches) as detailed in the setup guides

9. Parameter Calibration, erasing calibration and resetting



Pump/s must be able to pump water to enable correct calibration. If pumps are calibrated without water, overload and pump stalled errors may occur later.

Calibration can be performed automatically as detailed in the installation guides or by accessing the parameter menu and manually inputting the desired value

When a new pump is installed, or an existing pump reinstalled after maintenance, erase the former calibration and a perform a fresh calibration.

Erasing the parameter calibration

Press and Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.
The display will indicate **MANUAL** mode.

Press the **A STOP** and/or **B STOP** key for 30 seconds; the control panel makes a “beep” sound, and the control panel recovers the default factory setting and the LCD displays: No Calibration flashing.

Press **MODE** to return to **AUTO** mode.

Under auto state the control panel will run or stop the pump according to the signals from the liquid level probes, float switch, pressure switches or other connected inputs.

- **Note:** When a pump is running in **AUTO** mode and user wants to stop the pump, switch to **MANUAL** mode and the pump stops.
- Under **AUTO** mode, if the input power is cut off and the recovers, the control panel will enter an operational state after 10 seconds countdown.
- Whether in **AUTO** or **MANUAL** state, if the input power is cut off and recovers again, the control panel will resume its operation in the same state as before the power supply was interrupted.

Pump re-calibration

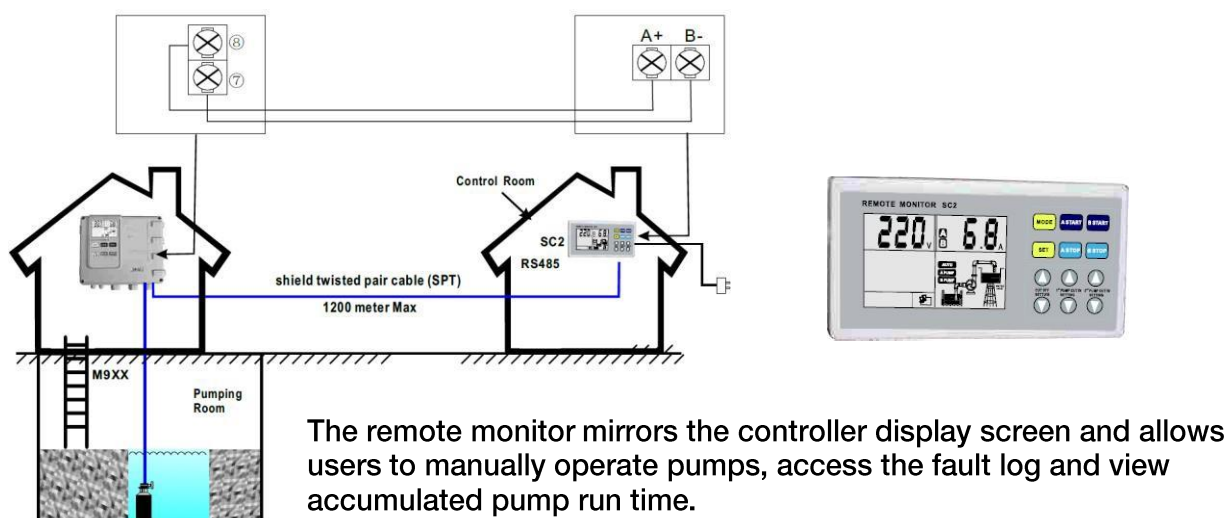
Press and Hold **MODE** **STORE** for 10 seconds if the unit is in Auto mode.
The display will indicate **MANUAL** mode

Press **A START** or **B START** and allow the pump to run until the pump is running at its duty point and the amps stabilize.

Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

10. Communication link

The control panel has communication interface, that along with the optional remote monitor user interface, it is possible to monitor and control the controller remotely.



The remote monitor mirrors the controller display screen and allows users to manually operate pumps, access the fault log and view accumulated pump run time.

A USB-A to USB Mini-A can be used to connect and power the slave controller however there are limitations to the cable length that will work reliably.

The communication interface, wire communication distance is less than 1200 metres. For those installation environments which require a longer distance communication, users can adopt RS485 extender, wireless communication or GSM.

Please contact White International for more information.

Main technical data	
Physical interface	RS485 Bus Interface: asynchronous semi duplex
Data format	1 start bit, 8 data bit, 1 stop bit, no verify 1 start bit, 8 data bit, 2 stop bit, no verify Default: 1 start bit, 8 data bit, 1 stop bit, no verify
Baud rate	1200,2400,4800,9600 bps (default 9600bps)
Communication address	Setting range of controller address: 1-126. 127: broadcast address, host computer broadcasting, slave machine response forbidden
Protocol type	MODBUS protocol (RTU)
Rated input voltage for SC	AC 240V/50Hz, single phase
Main installation data	
Wire communication distance	1200 m max by shield twisted pair cable (STP)for RS485 & CAN 5000 m max by STP and RS485 extender
STP	STP-120U one pair 20AWG for RS485 & CAN
RS485 extender	5000 m (9600bps)

11. Program Parameters

Switch to Manual mode (controller locked)

Hold **MODE** **STORE** for 10 seconds.

The display will indicate **MANUAL** MODE. Any operational pumps will stop.

PRESS and HOLD **MODE** for 5 seconds to enter the parameter programming mode.

SHORT PRESS **MODE** to scroll through parameter menu.

SHORT PRESS **A START** to increase a value. SHORT PRESS **A STOP** to decrease a value.

PRESS to **STORE** exit.

This parameter list is current for Rev 6.0 firmware

001	001	The controller ID Used to identify a unit in a Modbus system Range 0 - 254 Default = 1
002	004	RS 485 Speed 01 = 1200 bps 02 = 2400 bps 03 = 4800 bps 04 = 9600 bps Range 0 - 4 Default 4 = 9600 bps
003	006 ^s	Dry run protection trip response time in seconds (S) Range 0 seconds – 60 seconds Default value 6 seconds
004	030 ^m	Recovery time for dry run protection in minutes (M) Range 0 - 254 minutes Default value is 30 minutes
005	005 ^m	Overload trip response time in seconds Range 0 - 60 seconds Default value is 5 seconds The reset time is a non-adjustable value of 5 min. E.g., if the current is above parameter 009 for 5 seconds, controller stops pump for 5 min.

11. Program Parameters con't

006 002^m UNDER V OVER V	Under / Over voltage trip response time in minutes (M) Range 0 – 60 minutes Default value is 2 minutes <i>Under/Over voltage Parameters 012 and 013</i>
A 007 14.0^A	Rated power output to Pump A Range – model dependant – See Pg 6 Default setting model dependant Button Press calibration saves the running value to this location
B 008 14.0^A	Rated power output to Pump B Range – model dependant – See Pg 6 Default setting model dependant Button Press calibration saves the running value to this location
009 70[%] DRY RUN	The trip response ratio of the dry-running (underload) protection as a percentage of the rated current Range 0 – 95% Default setting is 70%
010 125[%] OVER LOAD	The trip response ratio of the Overload Protection as a percentage of the rated current. Range 0 – 170% Default setting is 125%
011 170[%] PUMP STALLED	The trip response ratio of the Pump-Stalled Protection as a percentage of the rated current. Range 0 – 240% Default setting is 170% <i>A pump-stalled event is a 'critical error' and has no auto-restart time</i>
012 352^v OVER V	The trip voltage of the Under Voltage Protection (V) Default setting is 352V
013 477^v OVER V	The trip voltage of the Over Voltage Protection (V) Default setting is 477V
014 240^H	<i>Note: Only Applicable to Drainage Mode</i> Anti-seize parameter. In auto mode, if pump has not run for XX hours, controller will run the pump for 3 seconds. Range 0 – 254 hours Default setting is 240 hours.

11. Program Parameters con't

015 005^m	Auto Mute function of Alarm When controller is in Critical Alarm state, after time interval of 015 has expired, the alarm changes from continuous sounding to chirp mode at one minute intervals until the alarm condition is reset.
016 010^s	Delay Start of Pump in Auto Mode Once input sensors calls for pump to start, Timer 015 counts down and Pump Starts Function used to prevent multiple, rapid starts of pump.
017 006^s	Pump Stalled Delay on start up When in Drainage mode, some pumps such as Grinders draw very high current on start up. To prevent controller interpreting as a Pump Stalled occurrence, the functionality of 010 can be delayed via setting 017
018 00	Phase Reversal Protection Function Selector 00 – Phase Reversal function Active 01 – Phase Reversal function Active, but won't prevent pump start 02 – Phase Reversal function Inactive
019 015^m	High level Audible Alarm & Lights delay When in Drainage mode, this delays activation of audible alarm and warning light once high level float activated for duration of time set at 019 Allows pump to lower level when rapid level change occurs without causing nascent alarming. Value must be greater than 000
020 15[%]	Phase Imbalance The control panel alarms, if any of the phases are out of balance by the set value; Default = 15% i.e. If a phase is lower by 15% the controller will alarm Setting the value to 0% disables this function
021 01	RST Open Phase. The control panel alarms, when a phase is dropped; Default = 01 - Enabled Setting the value to 00 disables this function

Previous firmware versions have fewer parameters, and the default values differ.

Please contact White International for advice when dealing with earlier generation controllers.

If a replacement pump is installed, the previous calibration should be removed and a new calibration performed.



iCon DPC controllers are a cost effective, reliable means to provide better control and protection without the need for costly bespoke switchboards

The following quick guides provide information regarding common applications.

The pumps illustrated in the following quick guides are all of a submersible type but the DPC controller not limited to this type of pump.

With an understanding of how the controller responds to various inputs in each of the modes the controller can be used for applications beyond what is suggested.

For example, the controller can be connected in series with a VFD controlled pump to provide additional control inputs or to utilise the DPC controller delay times.

For even greatly flexibility in your installation the DPC controller can be used as a 'module' in a more complex control environment.

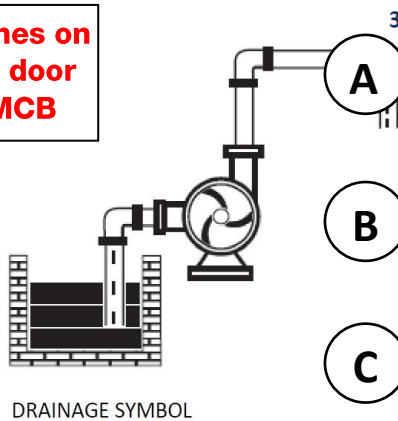


12. Quick guide: Drainage Pumps, floats connected to panel

Set the dip switches on the inside of the door and cycle the MCB



DRAINAGE SETTING
SWITCHES DOWN



DRAINAGE SYMBOL

3 Floats connected

Bridge 3 - 5

Lower level 1 - 5

Single pump runs (On/Off)

If only one pump runs, the controller alternates which pump runs at each start

B

Upper Level 2 - 4

Second pump starts

Both pumps run until lowest float Float A (1 - 5) switches off

C

High Level (Overflow) 2 - 6

Buzzer sounds and alarm flashes

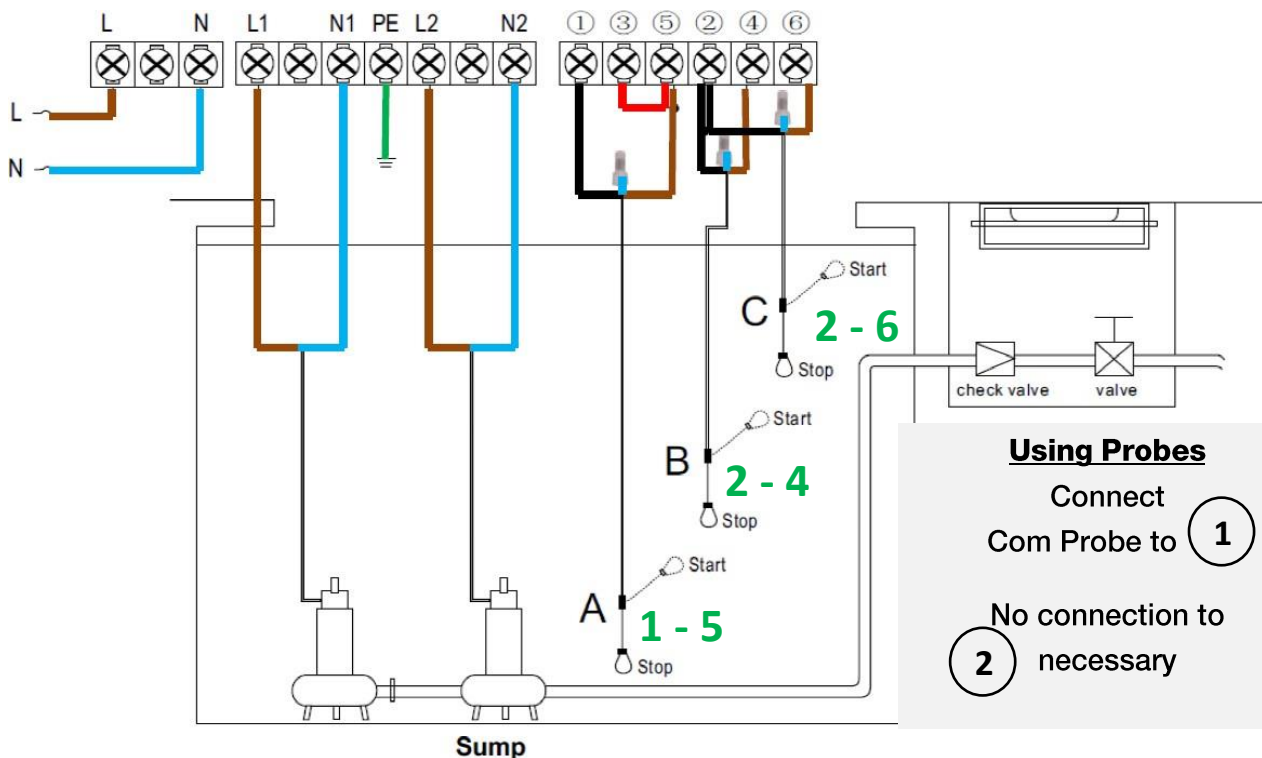
Both pumps run until lowest float Float A (1 - 5) switches off

Terminals 9&11 and 10&12 are to connect microtherms
Leave jumpers in place

4 Floats connected

Remove bridge 3 - 5

To provide greater differential at the lower level
a 4th float can be added to 1 - 3



Using Probes

Connect
Com Probe to 1

No connection to
2 necessary

Pump Calibration: Note each pump requires its own calibration

Press and **MODE** **STORE** Hold for 10 seconds to move from Auto to Manual mode.

The display will indicate **MANUAL** MODE

Press **A START** or **B START** and allow the pump to run until the pump is running at its duty point and the amps stabilize.

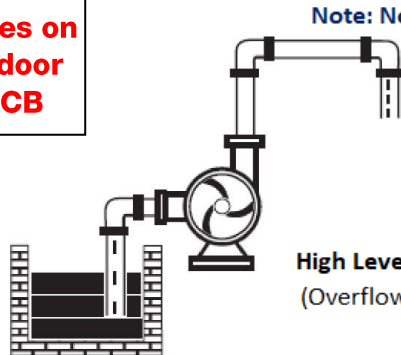
Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

13. Quick guide: Drainage Pumps with floats connected.

Set the dip switches on the inside of the door and cycle the MCB



DRAINAGE SETTING FOR AUTOMATIC PUMPS



DRAINAGE SYMBOL

Note: No dry run protection when using this mode.

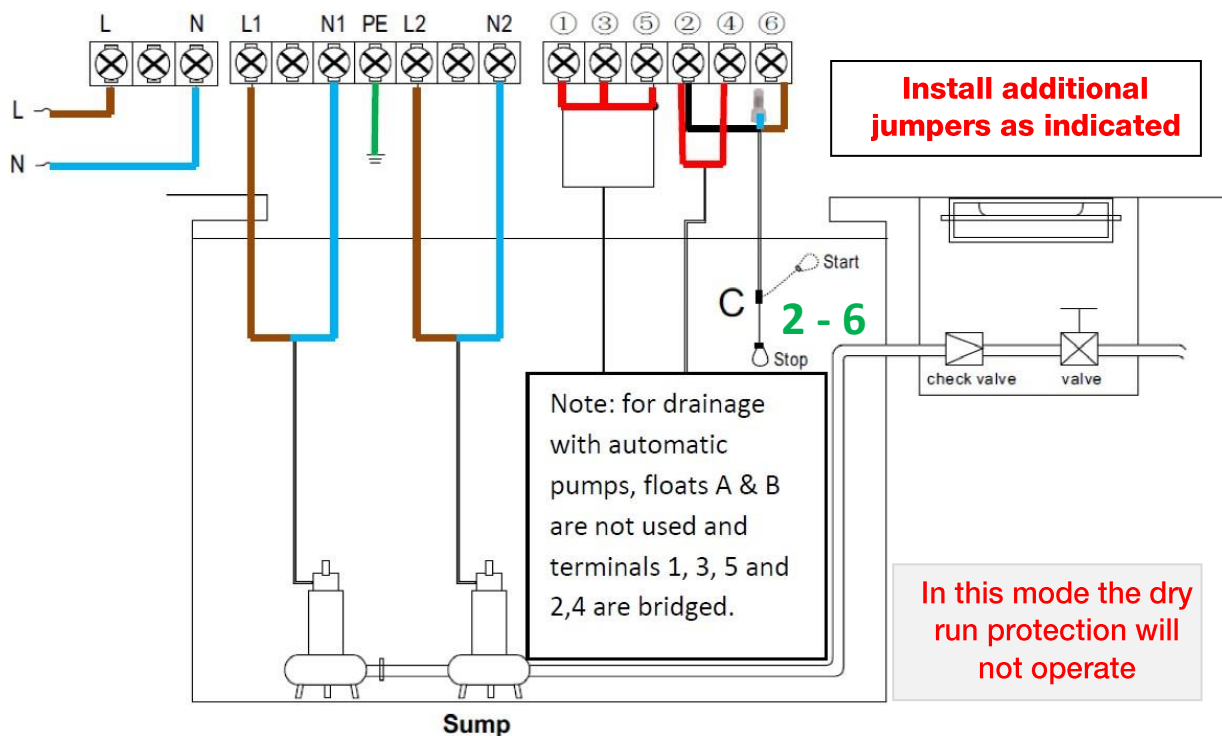
Bridge 1 - 3 - 5 also 2 - 4

Control panel alternates active pump every 240 hrs (user adjustable)

High Level (Overflow) 2 - 6

Both pumps activated together for 30 min after alarm condition

15 min delay before lights or buzzer activate to allow 2nd pump to assist pump out



Pump Calibration: Note each pump requires its own calibration

Press and Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.
The display will indicate **MANUAL** MODE

Press **A START** or **B START** and allow the pump to run until it is running at its duty point and the amps stabilize.

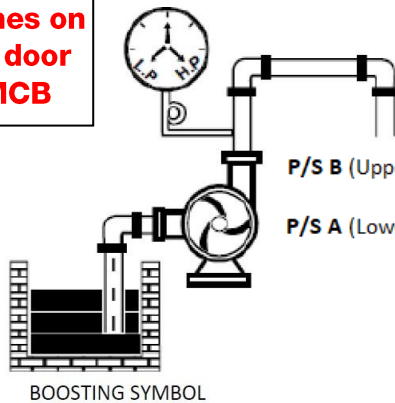
Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

14. Quick guide: Pressure boosting

Set the dip switches on the inside of the door and cycle the MCB



BOOSTING SETTING SWITCHES UP



BOOSTING SYMBOL

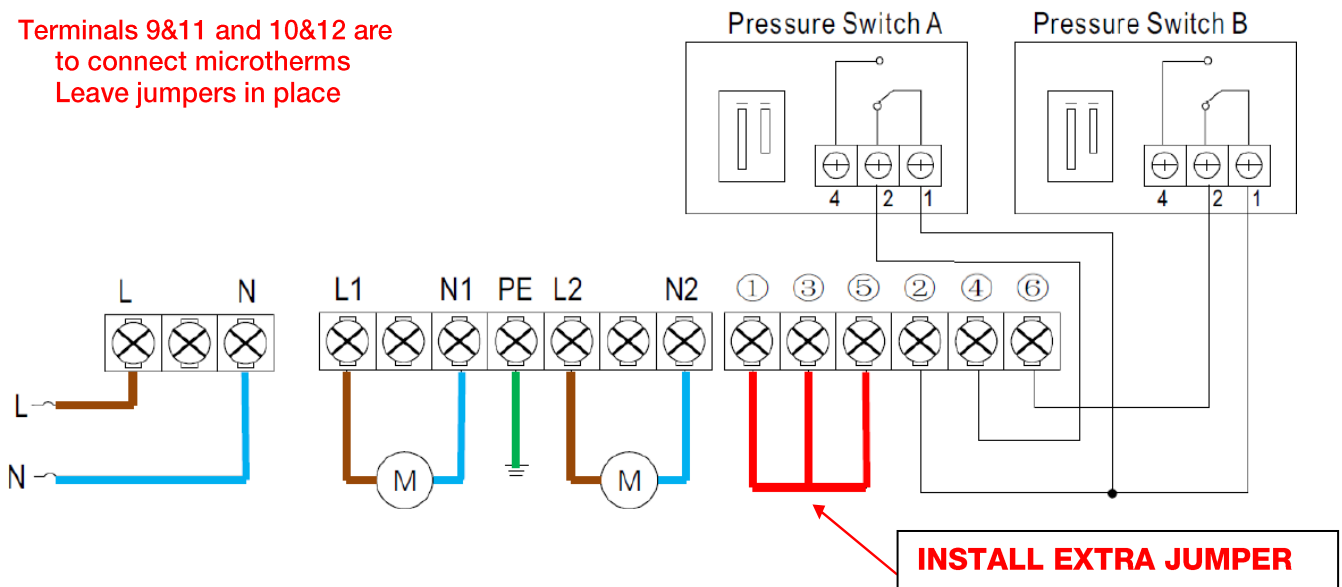
Bridge 1 - 3 - 5

Control panel alternates active pump every 240 hrs (User Adjustable)

P/S B (Upper setpoint) 2 - 6 First pump starts

P/S A (Lower setpoint) 2 - 4 If pressure drops to the point where **P/S A** activates, the 2nd pump runs. Once pressure exceeds **P/S A (2 - 4)** both pumps run until **P/S B (2 - 6)** switches off

Terminals 9&11 and 10&12 are to connect microtherms. Leave jumpers in place



Additional RUN/NO Control can be achieved by removing the 1-3-5 jumper and connecting between the 1 - 5 terminals

When terminals **1 - 5** are open circuit the pump(s) will NOT RUN. With **1 - 5** in a closed condition, the pump(s) will run according to the **2 - 4** and **2 - 6** control circuits.

Pump Calibration: Note each pump requires its own calibration

Press and Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.
The display will indicate **MANUAL** MODE

Press **A START** or **B START** and allow the pump to run until it is running at its duty point and the amps stabilize.

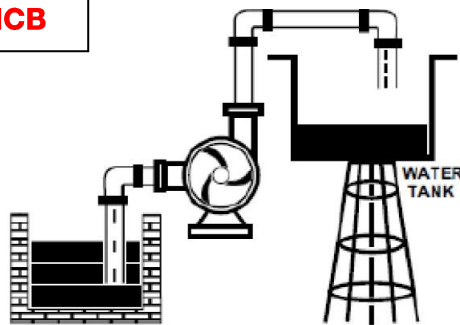
Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

15. Quick guide: Transfer - source and destination control

Set the dip switches on the inside of the door and cycle the MCB



TRANSFER SETTING



TRANSFER SYMBOL

Bridge 4 - 6

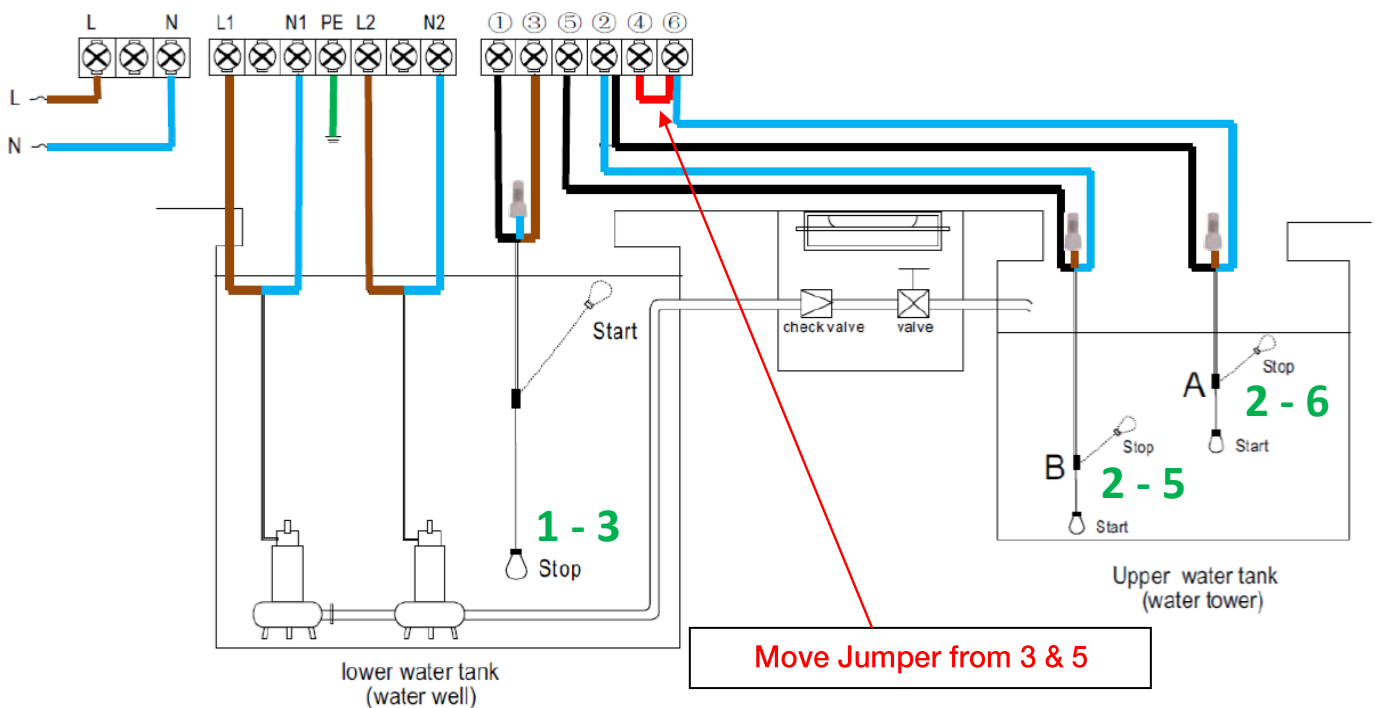
Source level 1 - 3

Must be in the up (on) position for operation
Down (off) position prevents and/or stops all pumping.

Terminals 9&11 and 10&12 are to connect microtherms
Leave jumpers in place

Normal demand 2 - 6 (A) When Float A (2 - 6) is in the down (closed) position a single pump operates.

High demand 2 - 5 (B) If level continues to drop with single pump running and Float B (2 - 5) reaches the down position, both pumps will run until both Float A and B are in the up (full) position



Pump Calibration: Note each pump requires its own calibration



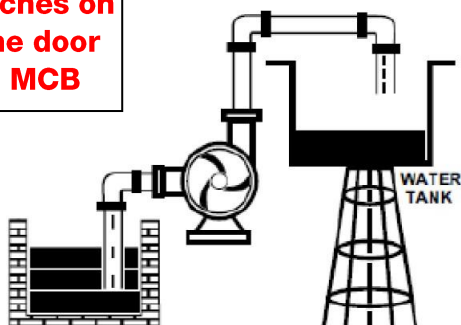
Refer to page 19

16. Quick guide: Transfer mode - thermostatic control

Set the dip switches on the inside of the door and cycle the MCB



TRANSFER SETTING FOR
HOT WATER CIRCULATION



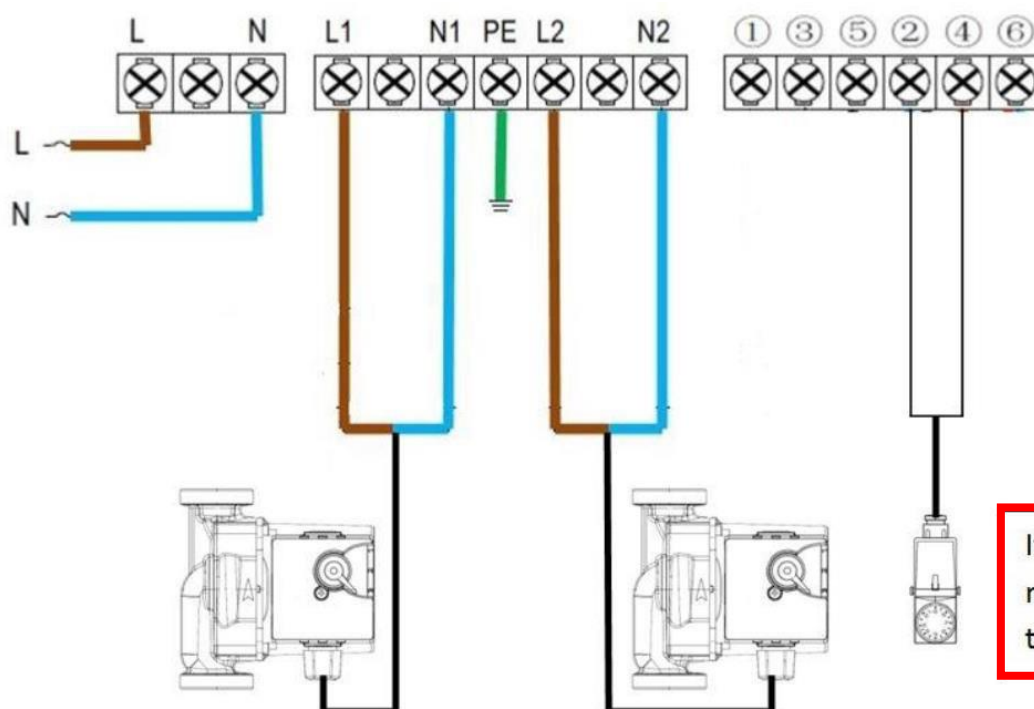
TRANSFER SYMBOL

Bridge - see notes

Control panel alternates active pump every 240 hrs (user adjustable)

2 - 4 A thermostat can be installed between 2 - 4 to switch the circulators on or off

**Terminals 9&11 and 10&12 are to connect microtherms
Leave jumpers in place**



If thermostat is not used, bridge terminals 2 and 4

Pump Calibration: Note each pump requires its own calibration

Press and Hold **MODE** **STORE** for 10 seconds to move from Auto to Manual mode.
The display will indicate **MANUAL** MODE

Press **A START** or **B START** and allow the pump to run until the pump is running at its duty point and the amps stabilize.

Press **STORE** The control panel will beep. Press **MODE** to return to **AUTO**

17. Fault messages – possible causes and solutions

Fault Message	Possible Cause	Solutions
Flashing PUMP NO CALIBRATION Parameter 007 / 008 or perform the auto calibration sequence	Pump calibration has not been completed.	See Pg 11 for calibration instructions.
Flashing DRY RUN Parameter 004 and 009	Water level in the well/sump is below pump intake, pump stops running. Broken outlet pipe	DPC will attempt to restart the pump every 30 minutes until water level restored.
Flashing OVER LOAD Parameter 005 and 010	Pump running amps greater than calibrated running amps, pump is in overload protection state. Pump damage, dragging impeller or bearing, possible clogging. Pump calibrated without water or with a nominal amperage value	DPC will attempt to restart the pump every 30 minutes until running amps restored to normal. Inspect and/or repair pump. Erase previous calibration and recalibrate with water.
Flashing PUMP STALLED Parameter 011	Pump running amps greater than 200% of calibrated running amps Pump Stalled protection indicates a 'Critical Error' suggesting obstruction to the impeller or cutting mechanism	Cut off power supply, inspect, repair or replace pump.
Flashing UNDER V Parameter 006 and 012	Voltage is lower than the calibrated voltage. The pump is in under voltage protection state.	DPC will attempt to restart the pump every 5 minutes until normal voltage is restored.
Flashing OVER V Parameter 006 and 013	Voltage is higher than the calibrated voltage. The pump is in the over-voltage protection state.	iPROTECT will attempt to restart the pump every 5 minutes until normal voltage is restored.
Flashing REPEATED START	Pump starts more than 5 times per minute. <i>It is less likely that this could occur in drainage or transfer mode unless there is a wiring fault.</i>	Check pressure switch settings are correct for application. Check pressure tank pre-charge pressure and condition of diaphragm (if fitted) Check the volume of sump is not too small.
Flashing OVER TEMP	The jumper on temperature protection terminals has been removed. Pump motor temperature high and pump thermal switch in open state (if connected).	Reinstall jumper on temperature protection terminals. Wait until pump motor temperature reduces. Investigate cause for Overheating.
 ON LINE	No communication between Slave controller and DPC Distance to SC excessive	Connect remote monitor to enable remote monitoring/control

18. Warranties – Terms and Conditions

This warranty is given in addition to the consumer guarantees found within the Australian Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 NZ for goods purchased in New Zealand:



1) White International Pty Ltd / White International NZ Ltd (White International) warrant that all products distributed are free from defects in workmanship and materials, for their provided warranty period as indicated on the top or opposite side of this document. Subject to the conditions of the warranty, White International will repair any defective products free of charge at the premises of our authorised service agents throughout Australia and New Zealand if a defect in the product appears during the warranty period. If you believe that you have purchased a defective product and wish to make a claim under this warranty, contact us on our Sales Hotline on 1300 783 601, or send your claim to our postal address or fax line below and we will advise you as to how next to proceed. You will be required to supply a copy of your proof of purchase to make a claim under this warranty.

2) This warranty excludes transportation costs to and from White International or its appointed service agents and excludes defects due to non-compliance with installation instructions, neglect or misuse, inadequate protection against the elements, low voltage or use or operation for purposes other than those for which they were designed. For further information regarding the suitability of your intended application contact us on our Sales Hotline on 1300 783 601. If you make an invalid claim under this warranty, the original product will be sent back to you unrepai red.

3) This warranty refers only to products sold after the 1st January 2012, and is not transferable to another product type and only applies to the original owner, purchaser or end user, and is in addition to the consumer guarantees found within the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand.

4) Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. 2 YEAR WARRANTY

5) To the fullest extent permitted by law, White International excludes its liability for all other conditions or warranties which would or might otherwise be implied at law. To the fullest extent permitted by law, White International's liability under this warranty and any other conditions, guarantees or warranties at law that cannot be excluded, including those in the Competition and Consumer Act 2010 (Cth), is expressly limited to: (a) in the case of products, the replacement of the product or the supply of equivalent product, the payment of the cost of replacing the product or of acquiring an equivalent product or the repair of the product or payment of the cost of having the product repaired, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand; and

6) To the fullest extent permitted by law, this warranty supersedes all other warranties attached to the product or its packaging.

7) In the case of services, supplying the services again or the payment of the cost of having the services supplied again, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand. 8) Our warranty commences from the date of purchase of the above-mentioned pumps. Proof of purchase is required before consideration under warranty is given.

Record your date of purchase in the space below and retain this copy for your records.

Date of Purchase**Model Purchased**



www.whiteint.com.au

1300 783 601

www.whiteint.co.nz

0800 509 506

Please always refer to our website for further technical information & new product innovations

Disclaimer: Every effort has been made to publish the correct information in this manual. No responsibility will be taken for errors, omissions or changes in product specifications.

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