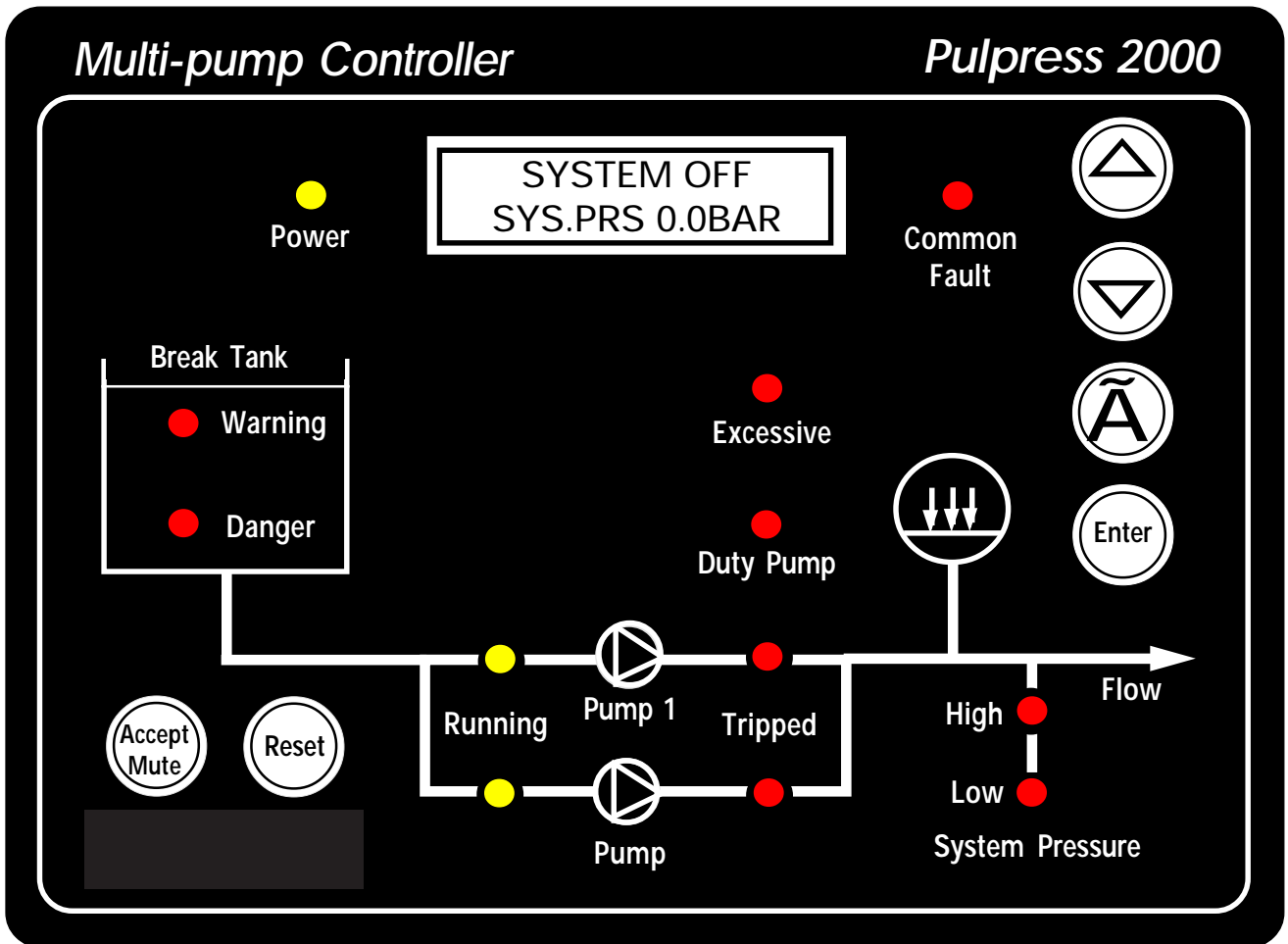


Installation, Commissioning & Maintenance

Pulpress Pro Prestige Multi-pump Controller



Fascia Plate for the Pulpress Controller

Preface

The Pullen microprocessor controllers are designed for ease of setting and operation. Access to information, and setting the parameters has been made quick and simple by dividing the main menu into four segments ALARMS, HOURS RUN, PUMP TESTS and PARAMETER SET UP.

All Pullen packaged pump systems are pre-wired and fully tested, both hydraulically and electrically prior to dispatch.

All parameter data has been entered into the controller in accordance with system criteria. Once on-site connections have been made, and all pre-checks carried out the system is ready to operate.

If during commissioning system conditions are found to vary from those set out in the design criteria, the parameters can be easily changed. (See section on parameter set up).

These Multi-pump Controller Operating Instructions describe the ease of pump-set operation and adjustment for PULPRESS® 2000 pressurisation systems.

Introduction

When a pump set leaves the factory, it will be set so all pumps are in the 'OFF' position on initial power up.

Prior to power being applied, it is essential that all pre-commissioning procedures are carried out in full.

Operating and maintenance instructions for the Pulpress 2000 should be read in conjunction with these Multi-pump Controller Operating Instructions.

Operators and installers must familiarise themselves with the operation and controls of the equipment, with special attention being paid to the Hand, Off, Auto section before power up.

The electronic controller consists of a mother board which is mounted on the internal base plate of the electrical cubicle and a display board which is mounted on the cubicle door. Communication between the two boards is via an RS232 coms link. Information being transmitted between the two boards is checked many times for errors, therefore to avoid instructions being ignored, successive button operations should not be too rapid.

In the unlikely event of the coms. link becoming disconnected, and communications being lost between the two boards, the unit **will continue to operate and maintain the system pressure as set out in the parameters before communication was lost,**

however all visual displays will be lost until the link is restored.

Pressure Transducer

Should an open circuit fault occur in the transducer circuitry, the digital display will read full scale i.e. (above 250psi). This will cause the high pressure alarm to activate and stop further pump operation.

Operating and Setting procedure

1. Switch disconnect switch to the 'ON' position.
Display will show:
UNIT STARTING.
2. After 5 seconds the display will show UNIT PRESSURISATION.
3. After a further 5 seconds display will show SYSTEM OFF and SYS PRESSURE 0.0BAR.
Unless the unit is in the remote inhibit mode, the display will then show REMOTE OFF and SYS. PRES. 0.0BAR

Note:

In this position all parameters can be accessed with the exception of the pump test and pump Man/Auto section. To access all parameters ensure unit is not in the inhibited mode.

To access parameter set up

1. Press \leftarrow once and the alarm status display will be shown. Press \leftarrow once more and the pump 'Hours Run' screen will be displayed. Press \leftarrow once more and the pump 'Test' screen will be displayed. Press \leftarrow once more and the parameter screen will be displayed.
2. Press the 'Enter' button and display will show Pump 1, select OFF.
Press 'Up' button to select 'Auto' or 'Down' button to select 'Manual'.









Note:

If pump 1 is selected to 'Manual', pump 2 will automatically be switched to the OFF position and vice versa, only one pump can be operated at a time.




3. After a pump has been selected to 'Manual', care should be taken to ensure that when it is returned to the 'Auto' position, the opposite pump parameter also has its pump returned to the 'Auto' position.
The 'Manual' position is for commissioning purposes only. Left in this position, the system could be over-pressurised and the pump become overheated.

(Where possible the 'Pump Test' section should be used for commissioning purposes.) Both pumps should be left in the 'Auto' position for normal operation.

4. Press \leftarrow once and the display will show pump 2

- select, operate as pump 1.
5. Press  once and the display will show duty pump cut-in pressure. Press the 'Up' button to increase or 'Down' button to decrease figure. This is normally set at 0.2 bar below the fill pressure.
 6. Press  once and the display will show Standby pump cut-in pressure. This is normally set at 0.1 bar below the duty pump cut-in pressure, to change setting press 'Up' or 'Down' button.
 7. Press  once and the display will show pump cut-out pressure. This should be set to the system fill pressure. To change setting press 'Up' or 'Down' button.
 8. Press  once and the display will show HIGH pressure alarm operates at, this is normally set at 0.2 bar above final system pressure. To change setting press 'Up' or 'Down' button.
 9. Press  once and the display will show HIGH pressure alarm resets at. This should be set at 0.2 bar below the high pressure alarm operating point. To change setting press 'Up' or 'Down' button.
 10. Press  once and the display will show LOW pressure alarm operates at. This should be set at 0.1 bar below the standby pump cut-in pressure. To change setting press 'Up' or 'Down' button.
 11. Press  once and the display will show LOW pressure alarm resets at, this should be set at 0.1 bar above the low pressure alarm operating point. To change setting press 'Up' or 'Down' button.
 12. Press  once more to return to the system status display screen.



To access Logged Alarms

1. Press  once from the system status display screen and the display will now show alarm status.
2. To access logged alarms press 'Enter'. If no alarms exist the system status display screen will once again be displayed. If an alarm has been logged, the display will show which individual alarm has been activated. If more than one alarm is logged press  once to view each alarm.
3. Once all alarms have been viewed pressing the 'Scroll' button () will automatically revert back to the system status display screen.



Note:

Pressing the 'Reset' button will remove all alarms that are no longer active from the window and from memory.






To access Pump Hours Run

1. Press  once and the alarm status display will be shown.
2. Press  once more and the Pump Hours Run screen will be displayed.
3. Press the 'Enter' button and pump 1 Hours Run

will be displayed.

4. Press  once and pump 2 'Hours Run' will be displayed.
5. Press  once more and the system status display screen will automatically be displayed again.

To access Pump Test

1. Press  once and the alarm status display will be shown.
2. Press  once more and the pump 'Hours Run' screen will be displayed.
3. Press  once more and the pump 'Test' screen will be displayed.
4. Press the 'Enter' button and the display will show pump 1 'Test Off'.
5. To turn pump on, press 'Up' button once and pump 1 will now run. After 30 seconds the pump will automatically turn off and display will revert to the standard front screen.
6. To turn pump off before 30 seconds have elapsed press the 'Down' button and pump will be switched off.
7. Press  once to move on to pump 2 'Test'. To operate press 'Up' or 'Down' buttons as for pump 1.
8. Press  once more to return to the system status display screen.

Parameter Presets

Access to this parameter is restricted to authorised service personnel only.

Accept/Mute Button

In the event of an alarm occurring, the Accept/Mute button can be operated to silence the external audible alarm (if fitted) and bring the flashing Common Fault LED to a steady state. If a subsequent alarm operates, the audible alarm will be sounded again and the Common Fault LED will re-flash.

Reset Button

Once the alarm has been accepted and is no longer active, the reset button can be operated to clear the now steady Common Fault LED and remove alarms that have been logged.

Note:

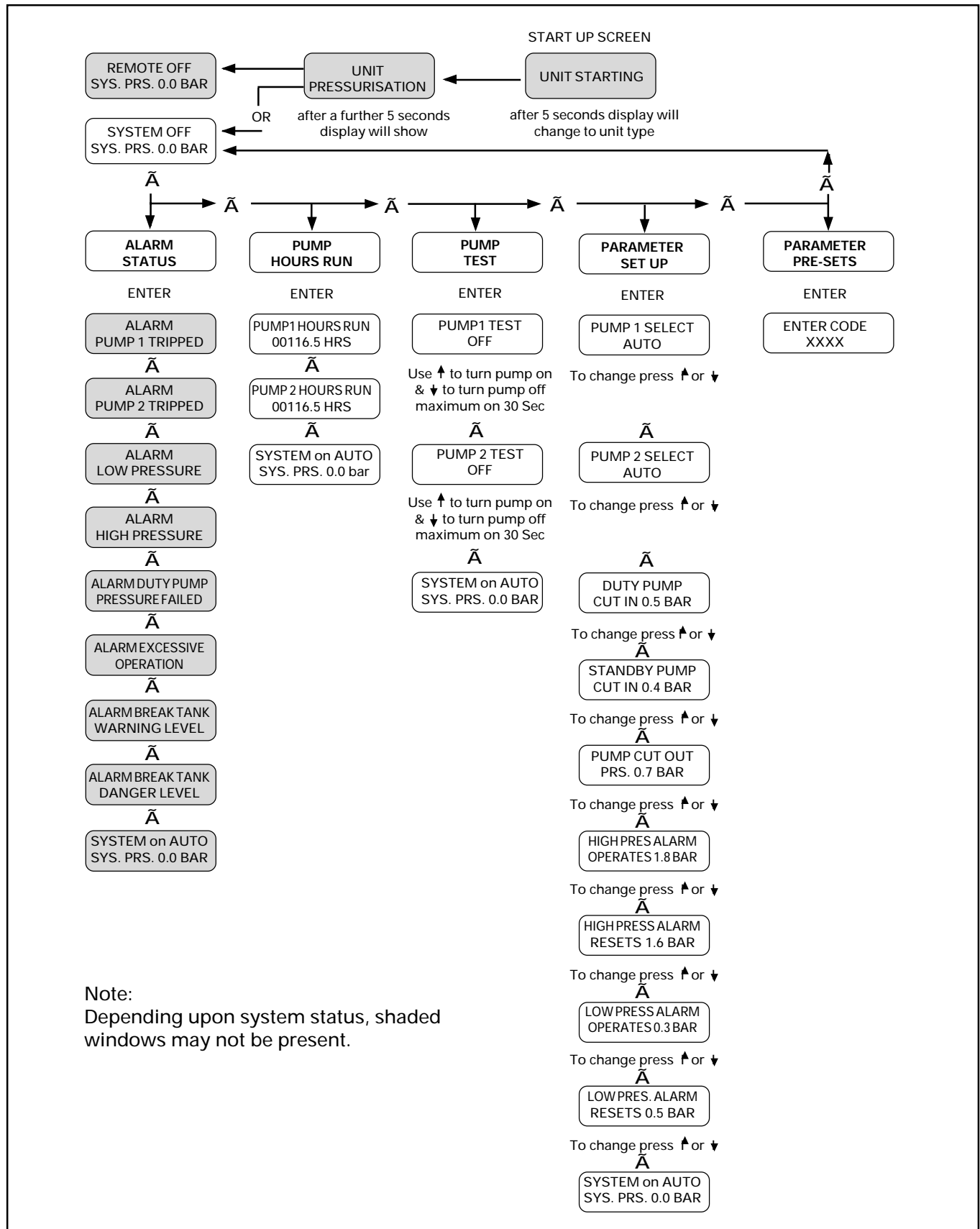
In the event of a danger warning level occurring in the break tank, pumps will have been locked out. Once the water level has been restored, the 'Reset' button must be operated before the pumps will operate again.

Electrical Data

For information on supply voltages, contact ratings and fuse values refer to product wiring diagram and data sheet.

Schematic flow chart

showing all possible display messages



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