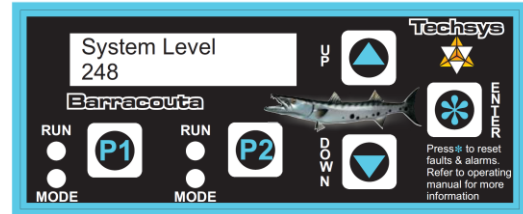


## Main Features. (Version 1811.00 Onwards)

- ❑ An industry proven dedicated pump control system designed to operate fixed speed pumps.
- ❑ Complete control package.
  - Connect power, wire in the pumps and attach the pressure tube, level transducer or floats.
- ❑ Supplied equipment.
  - Barracouta controller
  - IP65 Enclosure
  - Mains Isolator
  - Circuit breakers
- ❑ Optional equipment.
  - 25Bar pressure transducer 4-20mA
  - 3.5Mtr Submersible level transducer.
  - Air pump level system.
  - Floats.
- ❑ Capable of operating up to 2 pumps.
- ❑ Real English Menus with a 2 Line 16 characters LCD Display.
- ❑ Pump enabled and run indicators.
- ❑ Easy navigation menu system with password access control.
- ❑ For clarity Menus disappear when an option or function is not selected or required.
- ❑ Simple push button actions to enable/disable or manually operate each pump.
- ❑ Inbuilt settable time clock.
- ❑ Remote Control capability via digital input or telemetry.
- ❑ SCADA Compatible Modbus/RS485 for remote data acquisition, download or control.
- ❑ Two control modes.
  - One Cut In and Cut Out pressure/level for all pumps with time delayed starting of pumps.
  - Individual Cut In and Cut Out pressures/levels for each pump.
- ❑ Data protection or user entry via access code.
- ❑ Eight programmable inputs for user selectable functions with adjustable delay.
- ❑ Two programmable voltage free outputs for BMS interfacing or user selectable output functions.
- ❑ Selectable Duty /Standby and Backup pump operating mode options.
- ❑ Programmable spin-up mode for any pump that has not recently run. Adjustable Interval & time.
- ❑ Temporary mute of the buzzer on key press actions for silent operation.
- ❑ Continuous display of the pressure/level when fitted with a transducer or air pump system.
- ❑ Simple scaling and zeroing for all types of sensors or transducers.
- ❑ Data logs for local or remote viewing.
  - Total system flow.
  - Resettable Hours run and pump starts for each pump
  - Status of all inputs or outputs.
  - Highest pressure/level
  - Communications status
- ❑ Fault logging.
- ❑ Optional Low and High Pressure/Level action options.
  - Shutdown
  - Alarm only
  - No Action.
- ❑ Adjustable Low Pressure/Level setting with adjustable delay for the Low Pressure/Level Shutdown.
- ❑ User adjustable Cut In (Restart) Pressure/Level setting.



- Also has an adjustable next pump Cut In (ON) delay timer
- ❑ User adjustable Cut Out (Turn off pumps) Pressure/Level setting.
  - Also has an adjustable next pump Cut Out (OFF) delay timer
- ❑ Adjustable High Pressure/Level setting with adjustable delay for the High Pressure/Level Shutdown.
- ❑ A High Pressure/Level shutdown displays the pressure/level that exceeded the limit until the system is reset.
- ❑ Individual pump fault protection shut down option with adjustable delay.
- ❑ Individual pump protection option with auto-resetting and adjustable delay.
- ❑ Anti cycle options.
  - Pump minimum run time.
  - Maximum starts per hour.
- ❑ System Restart Delay Timer.
- ❑ System No Flow Input with adjustable timer.
- ❑ Pump Rotation Options:
  - Normal Full Autorotation will occur during any system restart.
  - Fixed Pump Start. The same pump starts on every restart.
  - Pump with the lowest hours to start next.
- ❑ Pause Input.
  - Two options available.
    - Pause all pumps including the Jockey pump.
    - Pause the main pumps and allow the Jockey pump to run.
- ❑ Low Level Input option.
  - For use with floats or similar on pressure applications. Displays "Paused - Low-Level".
- ❑ User Access Code Features
- ❑ Telemetry
  - The Barracouta is capable of communicating with an external telemetry system based on digital Inputs and/or Outputs from other devices.
  - A serial communications port is provided for direct connection to SCADA or BMS system for access to the Barracouta operating parameters. This is via RS485 MODBUS RTU protocol. A full list of register addresses can be provided.
- ❑ Digital Outputs
  - The Barracouta has 2 programmable outputs that can be selected for a variety of functions. They are rated to 5 amps 240VAC with change over contacts.
- ❑ Digital Inputs
  - The Barracouta has 8 programmable voltage free inputs that can be selected for a variety of functions.
- ❑ Four programmable Start and Stop times for system operation.



## Pricing Information

Configuration for all systems below - 2 Pump DOL, IP65 Plastic enclosure, Neon Alarm light & Buzzer

240 Systems have motor rated circuit breakers and designed to be used with motors fitted with internal thermal overloads.

415V System have motor protection breakers which include thermal & magnetic trip.

	240V Single Phase			415V Three Phase				
Size- KW	1.1	1.5	2.2	0.75	1.5	2.2	4	5.5
Motor O/L Size	10A	16A	16A	2.5A	4A	6A	10A	13A
Model Number	<b>BL-S 2-1.1/240</b>	<b>BL-S 2-1.5/240</b>	<b>BL-S 2-2.2/240</b>	<b>BL-S 2-0.75</b>	<b>BL-S 2-1.5</b>	<b>BL-S 2-2.2</b>	<b>BL-S 2-4</b>	<b>BL-S 2-5.5</b>

List Price

## Outline of available menus.

- ❑ System set pressure/level.
- ❑ Current system flow rate.
  - Fault History menu.
    - Readouts for the last five (5) faults.
  - Pump Data Log.
    - Hour Run counters for each pump.
    - Pump Start counters for each pump.
    - Total starts in the last hour.
    - Status of all inputs and outputs.
    - Controller temperature.
    - Communications status monitor.
  - Settings.
    - Low pressure/level shutdown.
    - Cut In pressure/level.
    - Cut Out pressure/level.
    - High Pressure/level Limit/Alarm/Shutdown.
    - 3 Optional pressure/level cut in and cut out settings.
    - Pressure/level trips for activating digital outputs.
  - Timing.
    - Low pressure/level shutdown delay.
    - Cut In delay.
    - Cut Out delay.
    - High Pressure/level Shutdown delay.
    - Individual and System NO Flow input delay.
    - Delays for general inputs.
    - Pressure/level trip and flow trip delay for activating digital outputs.
  - Configuration.
    - Operating mode. - (Pressure or Level or Multi Level)
    - Number of pumps on the system.
    - Pressure/level transducer zero and scaling.
    - User Access Code.
    - Serial communications settings.
  - Independent Jockey Pump.
    - Cut In pressure/level.
    - Cut Out pressure/level.
    - Run On time
    - Cut In delay time
  - Outputs (2) All individually programmable to one of the options below.
    - Shutdown Fault.
    - Low Pressure/level Fault.
    - High Pressure/level Fault.
    - Any Alarm.
    - Pump 1-2 Run.
    - Pump 1-2 Fault.
    - System Paused.
    - Any Pump Shutdown.
    - Any Pump Running.
    - No Flow Shutdown.
    - Pressure/level Trip
    - Alternate Trip.
    - Aux Output 1-2.

- Inputs (8) All individually programmable to one of the options below.
  - Alternate No 2 Cut In – Cut Out settings.
  - Alternate No 3 Cut In – Cut Out settings.
  - Pump 1-2 Protect(Pause).
  - Pump 1-2 Stop.
  - Pump 1-2 Manual Run.
  - Cycle pumps.
  - Reset.
  - No Flow.
  - Aux Input 1-2
  - Cut In 1
  - Cut In 2
  - Cut Out 1
  - Cut Out 2
  - Low Limit
  - High Limit

## Standard System Specifications.

Item	Description
<b>Power supply</b>	Control - 24 VDC- 20mA min 120mA max
<b>External transducer power supply</b>	24 VDC- 50mA max. Auto reset fuse protected
<b>EMC/ EMI filtering</b>	Designed to minimise conducted and radiated emissions.
<b>Standard Transducer</b>	N/A
<b>Time based functions</b>	±5% of real time
<b>Output Relays</b>	5 amp 250VAC changeover software configurable
<b>Switched inputs</b>	Voltage free - internal supply 24VDC - read threshold - 2mA
<b>Operating temperature</b>	0 to 50 degC
<b>Enclosure</b>	IP65
<b>Contactors</b>	Rated voltage - 690Vac Coil – 240VAC cycles - Mechanical. - 10x 10 <sup>6</sup> Electrical. - 2 x 10 <sup>6</sup> cycles/hr - 3600 auxiliary contacts - 1 x NO Standard - IEC947
<b>Motor circuit breakers</b>	Standard - IEC947 – Start current 10x FLC
<b>Wiring</b>	Standard - AS3000
<b>Input supply Voltage - 3 phase</b>	230 & 400V Options
<b>Input supply tolerance - 3 phase</b>	-20% + 10%
<b>Input frequency range</b>	48 to 62 Hz
<b>Enclosure size</b>	320W x 360H x 140D (mm)
<b>Dimensions including light, buzzer &amp; isolator.</b>	360W x 410H x 140D (mm)
<b>Average weight</b>	4.5KG

All options are available with every controller. Some options will require extra hardware or connection/s to perform the desired task.

## Controller Module Specifications.

- Size.
  - 10CM Wide x 19CM High x 6CM Deep
- Weight.
  - 200 Grams
- Standard supply voltage.
  - 24VDC +/- 10%
- Optional supply voltage.
  - 18VAC +/- 10%
- Power consumption.
  - 2W Typical