



## SET POINT PUMP CONTROLLER

### MODEL BD100

#### OVERVIEW:

The Model BD100 Bulldog from Blue Ribbon Corporation is a set point pump controller designed exclusively for use with the Blue Ribbon Birdcage® level sensor providing basic pump control functions.

The BD100 controller is an easy and inexpensive solution for monitoring and controlling pump station water levels. With six programmable level set points for pump control, including on/off set points for two pumps and settings for two alarms, and a preprogrammed set of default parameters to simplify the user interface and set-up.



Model BD100  
Set Point Pump Controller


#### FEATURES:

- Control ON-OFF for two pumps
- Front-panel programming
- Analog output for runtimes
- Secure menu for all other preset values
- 24 VDC power
- Accepts 4-20 mA or 1-5 VDC
- Non-volatile memory, no batteries
- Alternation of pumps set as default
- Set points continuously displayed, along with current level readings.



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Standard Specifications listed below. Consult factory for further options, which may change the overall dimensions.

<b>Set point Range</b>	Low and High points are selected independently
<b>Display</b>	Two 4 digit, 7 segment, 14.2mm (0.56") high LED's
<b>Control Action</b>	Selectable for Reverse (pump up) or Direct (pump down): Selectable for alternation or not
<b>Control Output Ratings</b>	Relays: 2 each SPDT, 10A at 240 VAC resistive, 1/2 hp at 120 VAC, 1/3 hp at 240 VAC Alarm Relays: 2 each SPST 3A at 240 VAC resistive, 1.5A at 240 VAC inductive, pilot Duty Rating: 240 VA 2A at 120 VAC or 1A at 240 VAC
<b>Additional Outputs</b>	Two switched voltage outputs mirror action of relays, for recording motor start cycles and run times
<b>Accuracy</b>	±0.25% of reading ±1 least significant digit
<b>Resolution</b>	1 count or 0.1 counts (sensor dependent)
<b>Isolation</b>	Relays and SSR outputs, 1500 VAC from all inputs and outputs; 24 VDC loop power, 500 VAC to all inputs and outputs
<b>Power Consumption</b>	5 VA maximum
<b>Electrical supply</b>	100 to 240 VAC nominal, +10% to 15%, 50 to 400 Hz single phase; 132 to 240 VDC +10% to 20%
<b>Loop Powered Supply</b>	Isolated +24 VDC supplies power to the Birdcage or Pressure Sensor
<b>Temperature Range</b>	Operating Range:- 10 °C to 55 °C (-14 °F to 130 °f) Storage Range: -40 °C to +80 °C (-40 °F to +175 °F)
<b>Agency Approvals</b>	UL508, CE 
<b>Humidity Range</b>	0 to 90% up to 40 °C for non-condensingw
<b>Memory Backup</b>	Non-volatile memory, no batteries
<b>Panel Cutout</b>	92mm X 92mm (3.625" X 3.625")
<b>Depth Behind Mounting Services</b>	103mm (4.0")
<b>Weight</b>	454 g (16 oz)
<b>Front Panel Rating</b>	IP66 (Type NEMA 4X)

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.

