



BLUE RIBBON CORP.

BULLDOG BD100 SETPOINT PUMP CONTROLLER

Dual setpoint controller that is easy to program. Controls submersible pumps in lift stations, and is designed to field calibrate the Birdcage Level Sensor.

STANDARD FEATURES:

- Control ON-OFF for two pumps
- Front-panel programming
- Analog output for run times.
- Secure menu for all other pre-set values
- 24 VDC power for sensor
- Accepts 4-20 mA or 1-5 VDC
- Nonvolatile memory, no batteries
- Alternation of pumps set as default
- Setpoints continuously displayed, along with current level readings



The Bulldog is a setpoint controller designed primarily to accept the 4-20mA output signal from the Birdcage level sensor, turn pumps on and off, and control alarm outputs.

This controller is simple and inexpensive. It is so simple that even the least-trained operator can program six standard level setpoints for the control of the pumps - the on/off setpoints for the two pumps and the settings for the two alarms. That's it! Everything else is defaulted to a secure menu, pre-programmed for the customer. Everything is readily available in case you have to change range or decimal placement, suppress the zero, or turn off the alternation, etc.

The flexibility and variety of options in the secure menu will be applauded by engineers, while the operators will never have to learn those programming steps. Nothing could be easier!

See reverse side for technical specifications and ordering guide.

Blue Ribbon reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5BR-BD100.00 Rev B



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Standard Specifications listed below.

Consult factory for further options, which may change the overall dimensions.

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

Ordering Guide:

Example: BD100

Part No.

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