SET POINT PUMP CONTROLLER

New Design!





Replaces Previous
Model BD100



Model BD100X
Set Point Pump Controller
Successor Model
(Fully compatible with existing installations)

CE

MODEL BD100X

OVERVIEW:

The Model BD100X from Blue Ribbon Corporation is a set point pump controller designed exclusively for use with the Blue Ribbon Model BC001 Birdcage® level sensor providing basic pump control functions.

The BD100X 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, settings for two alarms, and a preprogrammed set of default parameters to simplify the user interface and set-up.

FEATURES:

- Control ON-OFF for two pumps
- Front-panel, and backend programming
- Four relays, which can all be used for pump control
- Analog output for runtimes
- 24 VDC power
- Non-volatile memory, no batteries
- Accepts 4-20 mA or 1-5 VDC
- Alternation of pumps set as default
- One set point continuously displayed

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SET POINT PUMP CONTROLLER

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

Set point 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 at 240 VAC resistive, ½ hp at 120 VAC, ⅓ 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
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)
Agency Approvals	CE CE
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 Services	103mm (4.0")
Weight	454 g (16 oz)
Front Panel Rating	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.

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