



STATION CONTROLLER SC100

MADE IN
THE U.S.A.



UL FILE # E101681



DESCRIPTION

The SC100 controller is a low cost, simple to use simplex or duplex controller for lift station liquid level control. It operates the pumps based on the selected setup parameter values and the 4-20mA wet well level input signal. The controller has relays for two pump call outputs, and for high and low level alarms outputs. A regulated 24 VDC power supply is provided for powering the pressure transducer circuit. A four digit seven segment red LED display is provided for parameter setup and level display. Red LED's are provided for pump 1 and 2 call and for high and low level alarm indication. Alternation of the pumps is provided, and a fixed 1-2 or 2-1 sequence may also be selected through the menu. The controller can be setup to perform either pump up control (fill a tank) or pump down control (empty a tank). It also has a fixed 10 second power-up delay, and an adjustable lag pump delay to prevent the turning on of one or both of the pumps immediately after a power interruption. Zero and Span parameters are provided for field calibration of the level input for a wide variety of submersible pressure transducers. The level display is made even more flexible by the addition of a parameter to set the decimal point position, and by a parameter to adjust how fast the level display responds to changes in the level input signal, from very slow to fast. A level simulation feature is provided to test the lift station controls and pump operation. An isolated 4-20mA analog output is provided to re-transmit the level input from the transducer to a telemetry device.

SPECIFICATIONS

Input Power:	120VAC $\pm 10\%$, 7.8VA max
Power for Analog Input:	24VDC ± 1 V, Transient Protected
Agency Approval:	UL 508, CAN/CSA
Operating Temperature:	-20 °C to +65 °C
Storage Temperature:	-45 °C to +85 °C
Display Type:	4 Digit, 7 Segment, Red LED
Display Range:	0 - 2310 Feet (Selectable Decimal Point Position)
Indicators:	Red LED
Relay Outputs:	10A Resistive @ 120VAC 3.6A Inductive @ 120VAC
Analog Input AIX1:	4-20mA, Transient Protected, 100 Ω Load
Analog Output AOX1:	4-20mA, Transient Protected, Isolated, Max Load: 900 Ω
Color:	White with Blue Lettering
Enclosure Material:	Aluminum
Dimensions:	6.10" H x 7.70" W x 2.78" D

ORDERING INFORMATION

Part Number:
SC100

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