



STATION CONTROLLER SC1000



UL FILE # E101681

MADE IN THE U.S.A.



TYPICAL APPLICATIONS

Simplex, Duplex, Triplex Single Speed Pump Control
 Level Pump Down (Empty a Tank) or Pump Up (Fill a Tank) Control

DESCRIPTION

The SC1000 is a SCADA ready pump controller designed to perform level control in a wide range of lift station applications. It operates the pumps based on the selected setup values and the wet well level signal. The level input source is menu selectable for either a 4-20 mA pressure transducer, or a 10 point conductance probe. It alternates the pumps, performs lag pump delays, and provides high and low level alarms. It has a variety of control options available in the setup menu that may be used to customize the controller for a specific application.

ORDERING INFORMATION

Product Type SC1000
 (12 Discrete Inputs Standard)

Options that may be added to the end of the part Number:

S = Isolated Analog Level Input

STATION CONTROLLER SC1000 STANDARD FEATURES:

- ◆ All Setup Parameter Values May be Viewed or Changed From the Front of Unit
- ◆ 120 VAC input power
- ◆ Level Input Source - Menu Selectable
 - Analog Level Input (4-20mA from Pressure Transducer)
 - Level Probe (Conductance Probe with 10 Electrodes)
- ◆ 20 VDC Power for Analog Level Input Loop
- ◆ 6 Amp Relay Outputs for: Pump Call, High Level, and Low Level Alarms
- ◆ RS-232 Serial Port, Modbus Protocol, RTU or ASCII mode
- ◆ Alternation Modes - Menu Selectable
 - Standard Alternation
 - Pump 1 Always Lead - Stays On with Other Pumps
 - Pump 1 Always Lead - Turns Off with Other Pumps On
 - Pumps 1 & 2 Alternate, and Pump 3 Always Last
 - Fixed Sequence - Pump 1 Always Leads
 - Stepped On/Off - Only One Pump Runs at a Time
- ◆ Alternation - First On - Last Off or First On - First Off
- ◆ Alternator Logic Skips Disabled Pumps
- ◆ Remembers Lead Pump Position During Power Outage
- ◆ Timed [1 minute] Level Simulation
- ◆ Plug-in Style Connectors
- ◆ 12 Discrete Inputs that can be Programmed for the Following Functions:
 - Pump Disable with HOA in OFF, or Pump Fault
 - External Lead Pump Selector Switch
 - All Pump Disable - for Connection to Phase Monitor
 - Limit Number of Pumps Called While on Emergency Power
 - Alternation by External Time Clock
 - Freeze Wet Well Level During Bubbler Tube Purge
 - Float Switch Backup
 - A Variety of Telemetry Functions
- ◆ Status of Discrete Inputs May Be Viewed From Front of Controller
- ◆ Full Manual Available in .pdf format at www.cabrigggs.com at downloads

SPECIFICATIONS

Input Power:	120VAC ±10%, 13VA max	Power for Discrete Inputs:	24VDC Unregulated Transient Protected
Agency Approvals:	UL 508, CAN/CSA		
Ambient Operating Temp:	-20°C to +65°C		
Level Display:	3 Digit, 7 Segment LED	Power for Analog Input:	20VDC ±1V Regulated Transient Protected
Level Display Range:	0 - 255 ft. Decimal Point Position Menu Selectable		
Indicators:	LED	Power For Level Probe:	±12V Square-Wave, 60 Hz.
Color:	White with Blue Lettering		
Relays:	6A @250VAC		
Level Analog Input:	4-20mA, 250Ω Load Transient Protected		
External Dimensions:	6.9"H x 8.5" W x 4.1" D		
Cut Out Dimensions:	6.0" H x 7.5" W		