INSTALLATION, OPERATION MANUAL

SOLAROY® CONTROLLERS

MODEL: SRC-1000-0-00

MODEL: SRC-1000-4X-04
SRC-1000-0-00

Push ↑ or ↓ arrow to change set times

Confirms changes

Starts/Stops pump

Selector for changing modes

Prime — allows pump to operate for a selectable period of time to prime pump and/or piping

Cal — allows operator to select a time for running the pump for calibration with column. (i.e. 30, 60 seconds)

Run — normal operating mode for pump. Select when ready to put pump in operation.

Batch — mode to select a time to operate the pump and then stop. (i.e. 10 minutes on every 6 hours for example).
Specifications:
- Time based controller
- Option to select custom Cycle Time
- Run Time (on time) – 2 – 60sec
- 20A internal relay
- LED screen
- Four operation modes:
  - Prime
  - Calibration
  - Run
  - Batch
- System diagnostics, battery voltage, self diagnostics, etc.
- Nema 4X Enclosure
- Solar Regulator for up to 80 watt panel
- Fused

Advantage vs. Competition:
- Compact design, simple and very intuitive control
- Batch mode operation
- Designated operation modes for prime and calibration
- Energy efficient
SRC-1000-4X-04

CONTROLLER WITH
FRONT PLATE
SCREWS REMOVED
TO SHOW INSIDE
VIEW.
Specifications:

- Time based controller
- Option to select custom Cycle Time
- Run Time (on time) – 2 – 60sec
- 20A internal relay
- LED screen
- Four operation modes:
  - Prime
  - Calibration
  - Run
  - Batch
- System diagnostics, battery voltage, self diagnostics, etc.

Advantage vs. Competition:

- Compact design, simple and very intuitive control
- Batch mode operation
- Designated operation modes for prime and calibration
- Energy efficient
## MAIN KEYS

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>PRESS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Change Mode</td>
<td><img src="mode.png" alt="Mode" /></td>
<td><strong>PRIME</strong> → <strong>CAL</strong> → <strong>RUN</strong> → <strong>BATCH</strong></td>
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<tr>
<td>Adjust Values</td>
<td><img src="chevron.png" alt="Chevron" /></td>
<td>Increase/Decrease Set Parameter Values (Hold down button to increase rate)</td>
</tr>
<tr>
<td>Start/Stop Operation</td>
<td><img src="start_stop.png" alt="Start Stop" /></td>
<td>Starts/ Stops Mode Operation</td>
</tr>
</tbody>
</table>
| Change Mode Settings      | ![Set Enter](set_enter.png) | - Initiates Programming Mode  
                              - Saves Settings                                                           |
| View Voltage (only when mode running) | ![Chevron](chevron.png) | Displays battery/line voltage for 30 seconds                                |
| Wake Display from Power-Saving Mode | Any button | Turns the numeric display on if controller is in power saving mode. This does not effect the current running state of the controller. |

## PRIME [CAL] MODES

Used to run the pump continuously for a set period of time

**PRIME MODE**: Typically used when priming a pump, as it allows the pump to run continuously for a longer time
- Time: default 30 min
  [adjustable from 1 min - 24 hr in 1 min increments]

**CAL MODE**: Typically used when calibrating pump output, as it allows running the pump for a short, precise time
- Time: default: 60 sec
  [adjustable from 3 sec - 1 hr in 1 sec increments]

### FUNCTION | PRESS | DESCRIPTION

| Start/Stop Operation | ![Start Stop](start_stop.png) | - Starts Prime [Calibrate] Operation  
                         - Motor and PRIME [CAL] Indicators Flash  
                         - Display shows the remaining time *  
                         - Halts Prime [Calibrate] Operation  
                         - Motor Indicator off and PRIME [CAL] indicator solid yellow  
                         - Display cycles through the following sequence:
                          > 'Off' message  
                          > 'Programmed PRIME [CAL] time'  
                          > 'Battery/line voltage'  
                          > 'Error message [if present]' |

| Change Prime [Calibrate] Time (controller stopped only) | ![Set Enter](set_enter.png) | 'Prog' → 2 sec → X:XX →  
To adjust  
Abort  
Save & Exit  
To adjust  
Abort  
Save & Exit |

* Display will not turn off during an active PRIME/CAL operation
RUN [BATCH] MODES

Used to run the pump at repeatable regular intervals (Cycle Time) for a set duration (On Time)

RUN MODE: Used for relatively shorter intervals and durations
- Cycle Time default: 60 seconds [adjustable from 3 sec - 1 hr in 1 sec increments]
- On Time default: 6 seconds [adjustable from 3 sec - 1 hr in 1 sec increments]

BATCH MODE: Used for relatively longer intervals and durations
- Cycle Time default: 10 min [adjustable from 1 min - 24 hr in 1 min increments]
- On Time default: 1 min [adjustable from 1 min - 24 hr in 1 min increments]

FUNCTION | PRESS | DESCRIPTION
--- | --- | ---
Start/Stop Operation | | • Starts Run [Batch] Operation
- RUN [BATCH] Indicator Flashes
- MOTOR Indicator Flashes while motor is energized
- Display counts down time remaining
  > Motor On: Time remaining for motor to be energized
  > Motor Off: Time remaining until cycle repeats
• Halts Run [Batch] Operation
  - Motor Indicator off and RUN [BATCH] indicator solid yellow
  - Display cycles through the following sequence:
    > ‘Off’ message
    > ‘CYC’ message + Programmed Cycle Time
    > ‘On’ message + Programmed Motor On Time
    > ‘dc’ message + Battery/Line Voltage
    > Error message [if present]

Change Run [Batch] Settings (controller stopped only) | | * CYCLE TIME
‘Prog’ 2 sec

<table>
<thead>
<tr>
<th>E-01</th>
<th>E-10</th>
<th>E-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Battery</td>
<td>High Motor Current</td>
<td>Low Battery + High Motor Current</td>
</tr>
</tbody>
</table>

ERROR MESSAGES
SRC-1000-0-00

(-) (+)  (-) (+)

Power in  Power out
(12 vdc)  To pump
(12 vdc)