“BC104” Batch Controller

Introduction
The introduction of the BC-104 brings to Anderson-Negele's offering of superior products an extremely versatile and complete control package. To start, the BC-104 offers all of the capabilities of any stand alone batch controller in a single panel mount device. Then add to this package analog input capability, control inputs, and additional relay and analog outputs that are integrated using an internal programmable logic controller, and you have a device which can satisfy a multitude of custom processing needs. The possibilities range from tank selection or multiple preset capabilities to control of an additive dosing pump or a batch system with automatic supply selection and empty tank level alarms.

Features include flexible multi-line display with up to 5 lines, 5 relay outputs, RS-232 and RS-485 communication ports, NEMA 4X, available in a panel insertion form or in an optional stainless steel NEMA 4X enclosure that can be equipped with or without an integral pneumatic solenoid for valve operation. The BC-104 is ready to satisfy your specific processing needs.

For more information on this flow controller, or any of our other products visit www.anderson-negele.com or call our Customer Service Department at 1-800-833-0081

Features
- Multi-line display provides simultaneous display of multiple variables
- Built in logic controller gives flexibility in operation and ability
- Easy to wire removable terminals
- Full numeric keypad simplifies operation

Applications
- Batch Process
- Additional control capability of pump and process valves
- Flow Monitoring and Control
- Custom control of a variety of processes using available inputs and outputs
## Specifications

### OPERATING / ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Indoor use</td>
</tr>
<tr>
<td>Temperature</td>
<td>32° to 122°F (0° to 50°C) operation</td>
</tr>
<tr>
<td></td>
<td>-4° to 158°F (-20° to 70°C) storage</td>
</tr>
<tr>
<td>Panel rating</td>
<td>NEMA 4X</td>
</tr>
</tbody>
</table>

### MATERIAL / CONSTRUCTION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Polycarbonate / ABS Common mode</td>
</tr>
<tr>
<td>Label</td>
<td>Polyester voltage rating 250 VAC</td>
</tr>
</tbody>
</table>

### ELECTRICAL / POWER / SIGNAL

**Power Requirement:**
- 85-265 VAC, 47 to 63 Hz, 20 VA

**INPUTS**

- **Digital:** 10
- **Analog:** 10 (4-20mA), 2 (0-10V)
- **Counter:** 3 (including reset)
- **Impedance:**
  - 4.74kOhms to +5VDC or 26.9kOhms to ground
- **Thresholds:**
  - High: 3.5V to 30 V
  - Low: 0 to 1.5V, or 200 mV p-p to 50 V rms

**OUTPUTS**

- **Power:**
  - 24 VDC +/- 15%, 100 mA max, short circuit protected
  - 12 VDC +/- 10%, 75 mA max, short circuit protected

### COMMUNICATION

- **RS232:** 1200 – 19200 Baud DB-9s Connector
- **RS-485:** 1200 – 19200 Baud 6 wire RJ12 phone jack

### Display

- **128 X 64 pixel graphic LCD with LED backlight**
- 3 lines standard, programmable to 6 lines

### Recommended cut out dimensions 5.433”H x 2.677”W Depth 2.79”

### Order Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-C</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>E</td>
<td>Wall Mount with Stainless Steel Enclosure</td>
</tr>
<tr>
<td>S</td>
<td>Wall Mount with Pneumatic Solenoid</td>
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</tbody>
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ANDERSON INSTRUMENT COMPANY
156 Auriesville Road
Fultonville, NY 12072
Phone 800-833-0081
Fax 518-922-8997
info@anderson-negele.com
Tech. Support:
techservice@anderson-negele.com
Phone 800-833-0081