3100 Series Features

- Clocks are powered with 24V via a converter box that is powered locally with either 115VAC or 230VAC
- Converter box provides both power and time data to the clocks
- Available in different sizes
  - 2.5” (6.35 cm) display or 4.0” (10.16 cm) display
  - 4 digit (00:00) or 6 digit (00:00:00) display
- LED display color options:
  - Red (Standard), with Green, White, or Amber available at an additional cost
- 12 or 24 hour display
- Alternating time/date display (6 digit clock recommended)
- Adjustable brightness levels
- Internal lithium coin battery that keeps the clock’s settings and internal time if power is lost
- Loss of communication alert indicated by flashing colon on digital clock display
- Microprocessor based clock
- Digital clocks are capable of displaying:
  - Numerical messages received from Bogen’s master clock
  - “FirE” messages received from Bogen’s master clock that interfaces with the facility’s fire alarm system
  - “BELL” messages received from Bogen’s BCMA 3000 series master clock (at least 4 relays are needed)
- Users can configure the below settings via hardware jumpers:
  - Brightness Level (High/Low)
  - 12 or 24 hour display
  - Alternating time/date in U.S. format (6 digits recommended)
- Compatible with the BCAM Series analog clocks

Additional 3200 Features (Includes 3100 Features)

- Can receive 2-Wire Digital Communication Time Protocol and/or RS485 Time Protocol
- Capable of interfacing with:
  - Bogen’s Elapsed Timer Control Panel (BCBD-ELT-001-0) in order to count up or countdown in real time
  - Bogen’s Temperature Sensor (BCBD-TEMP-000-0) in order to display the temperature in Celsius or Fahrenheit
- Can interface with Bogen’s configuration software via USB cable accessory (D-USB485-INTF-1). Settings that can be configured:
  - Alternating Time/Date (6 digit clocks recommended) in both U.S. and International formats
  - Brightness level (High/Medium/Low/Off) and Brightness scheduling
  - 12/24 hour display
  - Adjust Elapsed Timer settings

Additional 3300 Features (Includes 3100/3200 Features)

- Can act as a stand alone clock
- Can interface with third party systems via contact closure, such as a hospital’s Nurse Call System
- Capable of receiving multiple time synchronization via contact closure from a third party master clock or intercom system
- Easy programming options via two (2) push buttons
- Interfaces to most Rauland and Dukane Master Clock/Intercom systems
- Can trigger Bogen’s buzzer notification (A-BUZZ-3300-1) when Elapsed Timer reaches 00:00:00 (optional)
# Specifications

- **Display Size:** 2.5" (6.35 cm) and 4.0" (10.16 cm)
- **Display Color:** Red (standard), White, Green, Amber (additional cost)
- **Number of Digits:** 4 digit (00:00:00) or 6 digit (00:00:00:00)
- **Visibility:**
  - 150 ft. (45.72 m) - 2.5" (6.35 cm) model
  - 250 ft. (76.2 m) - 4.0" (10.16 cm) model
- **Clock Size:** (WxHxD)
  - 2.5" clock, 4 digit: 11.06" (28.09 cm) x 5.38" (13.67 cm) x 4.06" (10.16 cm)
  - 2.5" clock, 6 digit: 14.13" (35.89 cm) x 7.56" (19.20 cm) x 4.38" (11.16 cm)
  - 4.0" clock, 4 digit: 13.44" (34.11 cm) x 7.56" (19.20 cm) x 4.38" (11.16 cm)
  - 4.0" clock, 6 digit: 14.44" (36.68 cm) x 5.38" (13.67 cm) x 4.38" (11.16 cm)
- **Temperature Range:**
  - Operating: 0°C to 50°C
  - Storage: -15°C to 75°C
- **Input Voltage for 2.5" clock:**
  - 13 - 26 VAC/DC (24 volt model)
  - 85 - 130 VAC (115 volt model)
  - 180 - 260 VAC (230 volt model)
- **Input Voltage for 4.0" clock:**
  - 17 - 26 VAC/DC (24 volt model)
  - 100 - 130 VAC (115 volt model)
  - 200 - 260 VAC (230 volt model)
- **Average Current Consumption:**
  - 2.5" (6.35 cm) 4 Digit Clock: 89 mA @ 24 VAC/DC
  - 4.0" (10.16 cm) 4 Digit Clock: 138 mA @ 24VAC/DC
  - 2.5" (6.35 cm) 6 Digit Clock: 121 mA @ 24VAC/DC
  - 4.0" (10.16 cm) 6 Digit Clock: 183 mA @ 24VAC/DC

# Ordering Information

**BCBD 3000 Series Wired Clock**

<table>
<thead>
<tr>
<th>X</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standard Model</td>
</tr>
<tr>
<td>2</td>
<td>With Elapsed Timer Capabilities/RS485</td>
</tr>
<tr>
<td>3</td>
<td>With Elapsed Timer, RS485 and Interfacing Capabilities</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Z</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Surface</td>
</tr>
<tr>
<td>F</td>
<td>Flush</td>
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</table>

<table>
<thead>
<tr>
<th>SS</th>
<th>Clock Size</th>
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</thead>
<tbody>
<tr>
<td>25</td>
<td>2.5&quot; Size</td>
</tr>
<tr>
<td>40</td>
<td>4.0&quot; Size</td>
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<table>
<thead>
<tr>
<th>D</th>
<th>Digits</th>
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<tbody>
<tr>
<td>4</td>
<td>4 Digits</td>
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<tr>
<td>6</td>
<td>6 Digits</td>
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<table>
<thead>
<tr>
<th>V</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>4</td>
<td>4-24 Volt</td>
</tr>
<tr>
<td>1</td>
<td>1-115 Volt</td>
</tr>
<tr>
<td>2</td>
<td>2-230 Volt</td>
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</table>

<table>
<thead>
<tr>
<th>Z</th>
<th>Digit Color</th>
</tr>
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<tbody>
<tr>
<td>R</td>
<td>Red</td>
</tr>
<tr>
<td>W</td>
<td>White</td>
</tr>
<tr>
<td>G</td>
<td>Green</td>
</tr>
<tr>
<td>A</td>
<td>Amber</td>
</tr>
</tbody>
</table>

**Examples:**

- BCBD-31S-254-4W: BCBD 3300 Series, Standard Model, Surface Mount, 2.5" (6.35 cm), 4 Digit, 24 Volt, White
- BCBD-31F-254-6W: BCBD 3300 Series, with Elapsed Timer, RS485 and Interfacing Capabilities, Flush Mount, 2.5" (6.35 cm), 4 Digit, 24 Volt, White
- BCBD-33F-406-1R: BCBD 3300 Series, with Elapsed Timer, RS485 and Interfacing Capabilities, Flush Mount, 4.0" (10.16 cm), 6 Digit, 115 Volt, Red
- BCBD-331S-406-2R: BCBD 3100 Series, Standard Model, Surface Mount, 4.0" (10.16 cm), 6 Digit, 115 Volt, Red
- BCAB-4GD-00S-0: Double Mount Pole, Black

**Double Mount Pole**

BCAB–4GD–00S–0

**NOTE:** For a dual faced clock, you will need two single mount clocks and one double mount housing.

**NOTE:** The 3100 Series is available only in the 2-wire system which operates on 24V.

*specification sheets may change without prior notice