

## BCBD 1000 Series 2.5" and 4" Digital Clock



### HIGHLIGHTS

- Immediate correction for time change
- Clocks will not deviate from each other
- Available in 2.5" display and 4.0" display
- 12 or 24 hour format
- Available in red or blue displays
- "BELL", "FirE" messaging capabilities
- Choice of two (2) wire digital communication protocol or RS485 protocol
- Bright LED display
- Two (2) settings for brightness
- Loss of communication alert
- LEDs for visual representation of the receiving and transmitting of RS485 data
- Diagnostic LEDs for visual indication for the two (2) wire signal and power
- Selection of anti-glare red or blue bezel
- No battery backup required
- Unlimited clocks can be run off the same communication line (RS485 only)
- Dynamic range for input voltages
  - 12—30 VDC (24 Volt model)
  - 12—30 VAC (24 Volt model)
  - 78—130 VAC (110 Volt model)
- Analog and digital clocks can be combined on the same power line (two (2) wire) or communication line (RS485)
- Plug in Molex connectors
- Available in flush, surface and double mount housings
- UL, cUL listed and FCC approved
- Made in the U.S.A.

### DESCRIPTION

Bogen Communications Bar Display (BCBD) 1000 Series digital clocks are available with either 2.5" high characters or 4.0" high characters in a four (4) digit display. The BCBD 1000 Series digital clocks are reliable slave clocks that work on Bogen two (2) wire digital communication or a RS485 protocol. The clocks implement immediate correction upon receipt of the digital signal. The BCBD 1000 has many options such as 12 or 24 hour format, display "Bell" or "FirE" messaging, as well as two (2) brightness settings. The BCBD 1000 Series digital clocks can be mounted in a surface, flush or double mount housing. The 1000 Series clock also feature LEDs, viewable to the user, in order to show if it is receiving and transmitting data, making it easier to maintain and install. The unique, specially molded anti-glare bezel gives a smooth, clean look with no visible external screws.

## BCBD 1000 Series 2.5" and 4" Digital Clock

### SPECIFICATIONS

- Display size: 2.5" and 4.0" characters
- Display color: Vibrant red or blue
- Visibility: 100 feet — 2.5" Clock  
250 feet — 4.0" Clock
- Bezel color: Anti-glare red or blue
- Bezel size: (LxW) 4.69" x 10.31" — 2.5" Clock  
6.75" x 13.31" — 4.0" Clock
- Input voltage for 2.5" clock: 12 - 30 VDC (24 Volt)  
12 - 30 VAC (24 Volt)  
78 - 130 VAC (110 Volt)
- Input voltage for 4.0" clock: 16 - 28 VDC (24 Volt)  
14 - 28 VAC (24 Volt)  
85 - 135 VAC (110 Volt)
- Average current consumption: (Max Brightness) 2.5" Clock  
85 mA @ 24 VAC  
30 mA @ 110 VAC  
4.0" Clock  
190 mA @ 24 VAC  
45 mA @ 110 VAC
- Signal input: RS485 or 2 wire digital communication
- Signal output: RS485
- Temperature Range:  
Operating: 0°C - 45°C  
Shelf: -15°C - 75°C
- Display format: 12 or 24 hour mode
- Brightness: 2 levels, adjustable
- Mounting: Flush, wall and double mount
- Shipping weight: 2 lbs. — 2.5" clock  
3.5 lbs. — 4.0" clock
- Shipping box dimensions:  
2.5" Clock: (LxWxD) 7.5" x 11.375" x 4.25"  
4.0" Clock: (LxWxD) 9.75" x 14.25" x 4.25"
- Power kit includes:  
1 - 5 pin power harness  
1 - 4 pin RS485 harness  
4 - 6-32 x 1/2 machine screw  
1 - 6-32 hex nut  
1 - tooth lock washer  
1 - grounding wire, loop end
- Compliance: UL, cUL listed and FCC Approved

### ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The clock shall be a Bogen BCBD 1000 Digital Clock and shall have either a full 2.5" or 4.0" high efficiency red or blue LED numeral display. The clock will operate as a RS485 digital slave clock or as a two (2) wire digital communication digital slave clock. The clock is to have data LEDs, viewable to the user, in order to display the receiving or transmitting of data. It shall have a 12 or 24 hour display format. The clock shall have two (2) levels of adjustable brightness and shall feature immediate correction for time changes. The clock shall be installed either flush, surface or double mount. The clock will have messaging capabilities including "BELL" and "FirE". When the input is lost, the colon on the display of the clock shall flash. The clock bezel shall be anti-glare red or blue with a smooth surface. No external screws shall be visible on the bezel or clock housing. The clock shall have UL, cUL and FCC compliance.

### MECHANICAL DRAWING

