

**BCBD 2000 Series Clock 2.5" and 4" Digital Clock****HIGHLIGHTS**

- Microprocessor based
- Can interface with existing systems
- Master, slave and independent clock with chronograph capabilities
- 58 minute, 59 minute, National Time and Rauland sync wire inputs, Midnight Reset input, RS485 input and output and two (2) wire digital communication input
- Interface capabilities to most Rauland and Dukane Master Clock/ Intercom systems
- "BELL", "FirE" and addressable messaging capabilities
- Available in red or blue displays
- Automatic daylight savings time (when used as a primary master clock)
- 12 or 24 hour display
- Three (3) levels of programmable brightness
- Alternating time/date in both American and European formats
- Ten (10) year battery backup
- Immediate correction for time change, when used with RS485 or two (2) wire digital communication input
- Ease of maintenance—if input is lost, the colon will flash
- Analog and digital clocks can be mixed on the same line
- Easy programming options via two (2) switches
- Both 110 volt and 24 volt AC/DC power input in each clock
- UL, cUL, FCC approved
- Made in the U.S.A.

**DESCRIPTION**

Bogen Communications Bar Display (BCBD) 2000 Series digital clocks are available in 2.5" or 4.0" high characters with a four (4) digit display. The 2000 Series clocks are state-of-the-art bar display timepieces. This superior line of digital clocks features automatic daylight savings time correction (when used as a primary master clock), PM indicator, master, slave or independent clock capabilities. The BCBD 2000 Series clocks have chronograph capabilities using the Bogen Control Box Option. The 2000 Series digital clock is based on our high efficiency, bright LED display. Our unique, specially molded, anti-glare front bezel gives a smooth surface with no visible external screws which allows for excellent visibility. The BCBD 2000 can also perform diagnostic capabilities to the BCAM, BCRM, and BCAA Series clocks through programming mode. It also has programmable brightness, alternating time and date display in both American and European formats, as well as "BELL", "FirE" and addressable messaging capabilities. The BCBD 2000 Series is capable of interfacing with existing systems such as 59 minute correction, National Time and Rauland, 58 minute correction and Dukane systems while acting as a master clock for the 1000 and 2000 Series, BCAM Series analog clocks via two (2) wire and RS485 analog slave clocks.

## BCBD 2000 Series Clock 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
- Temperature range:  
Operating: 0°C - 45°C  
Storage: -15°C - 75°C
- 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
- Display format: 12 or 24 hour mode
- Brightness: Three (3) 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 2000 digital clock and will have either a full 2.5" or 4.0" high-efficiency red or blue LED numeral display. The clock shall operate as a master clock to the BCBD 1000 or BCBD 2000, the BCAM Series via two (2) wire digital communication, or BCRM RS485 clocks. The clock shall be capable of receiving inputs from other systems. The clock will have data LEDs to display the receiving or transmitting of data. It shall have a 12 or 24 hour display format. It shall have three (3) levels of adjustable brightness and will feature immediate correction for time changes. The digital clock shall be installed either flush, surface or double mount. The clock shall have messaging capabilities including "BELL" and "FirE". The clock will have chronograph capabilities via the Bogen Control Box, as well as the ability to alternate between the current time and date. 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 will be visible on the bezel or clock housing. The clock is to have UL, cUL and FCC compliance.

### MECHANICAL DRAWING

