



### HIGHLIGHTS

- Microprocessor based movement
- Each clock acts as a repeater
- 915—928MHz frequency-hopping technology
- Receiving and transmission rate every four (4) hours for battery operation. Receiving and transmission rate of once a minute for 110V
- Internal antenna
- Automatic calibration
- Built-in diagnostic mode for easy maintenance
- Quick correction for time change (max. five (5) minutes)
- Ideal for renovation projects using existing wiring, or for new installations
- Hour, minute and second hands
- Energy efficient:
  - 5 year Battery life (2 "D" cell)\*\*
  - 15 mA@ 110 VAC (voltage)
- Wide dynamic range for input voltage
  - Battery powered (2 "D" cell)
  - 85 VAC—135 VAC (110 V model)
- Does not require custom back box
- Plug in Molex connectors (in 110VAC model)
- Smooth surface black ABS case and polycarbonate crystal
- Made in U.S.A.
- Patents pending
- FCC Compliant, FCC part 15 Section 15,247

\*\*Provided good reception

### DESCRIPTION

Valcom's innovative analog wireless clocks incorporate multi-function capabilities. Every clock is capable of receiving and transmitting a signal. This type of system provides significant advantages because it is not limited to the distance or the signal path between the V-WMC and the clock. Since each clock acts as a repeater, the significant factor is the distance between one clock to another. The innovative 915-928 MHz frequency-hopping technology allows for a better and clearer signal even if there is interference in one of the frequencies. The Valcom analog wireless clocks are designed to automatically work together without causing interference with each other. In fact, the more clocks in a specific area would increase the quality of the signal to each unit. These clocks include automatic calibration, as well as diagnostic functionality that allows the user to view the quality of the signal, how long since the last time the clock received a signal, and a comprehensive analysis of the clock itself. Valcom analog wireless clocks transmit a stream of data every four (4) hours (battery operated model only), and every minute (110V model). The Valcom analog wireless clocks are compact, energy efficient and reliable. The clocks are available in 12" and 16" models. The Valcom wireless clocks are FCC Compliant, part 15 Section 15,247.

### SPECIFICATIONS

- Time base: Quartz, automatic calibration
- Power input: Battery (2 "D" cell)  
14 - 28 VAC/60 Hz  
85 - 135 VAC/60 Hz
- Average current consumption: Battery - 5 year, 2 "D" cell\*\*  
10 ma @ 110 VAC
- Power output: 8 dbm (6mW)
- Input sensitivity: -103 dbm
- Operating frequency: 915 - 928 MHz frequency-hopping technology
- Display: 12 or 24 hour format
- Color: Standard black
- Clock size: 12.65" outer diameter, 2.18" depth  
16.65" outer diameter, 2.18" depth
- Dial: Durable polystyrene material
- Case: Smooth surface ABS case
- Crystal: Shatterproof, side molded polycarbonate crystal
- Temperature range:  
Operating: 0°C - 45°C  
Shelf: -15°C - 75°C
- Movement dimensions: (LxWxD) 7.32" x 3.46" x 1.81"
- Shipping box dimensions: (LxWxD) 12" - 13.31" x 14.25" x 3.5"
- Shipping weight: 12" - 2.5 lbs.  
16" - 4.0 lbs.
- Power kit includes: 2 - blue plastic anchor  
2 - 10 x 1.5 sheet metal screw  
1 - 4mm thread, 10mm length screw  
1 - mounting bracket
- Compliance: FCC Compliant. FCC part 15  
Section 15.247

\*\*Provided good reception

### ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The secondary clock shall be a Valcom Wireless analog clock. The clock will be capable of receiving a signal from multiple clocks. The clock shall receive and transmit with 915–928 MHz frequency–hopping technology. The clock is to be capable of transmitting the time simultaneously without interfering with each other. The clocks shall include automatic calibration, as well as a diagnostic function that allows the user to view the quality of the signal, the last time the clock received a correction signal, a gearbox test and a comprehensive analysis of the entire clock. The clock shall have a maximum correction time of five (5) minutes. It shall be designed to be used with the Valcom V-WMC, which can be regulated via Valcom wireless communication protocol. Upon receipt of the wireless signal, the clock will immediately self–correct. The clock shall have a semi–flush smooth surface ABS case. The dial is to be made of durable polystyrene material. The crystal is to be shatterproof, side molded polycarbonate. Glass and visible molding marks are unacceptable. The clock shall have black hour and minute hands as well as a red second hand. The clock shall be FCC compliant, part 15 Section 15,247.

### MECHANICAL DRAWING

