Technical Specifications

V-WMCA Wireless Master Clock Transceiver

- Can act as a transmitter or repeater for Valcom Wireless Clock Systems
- TCP/IP network connection
- Frequency tuning circuit allows for time correction with changes in temperature
- Field-enabled Daylight Savings Time (When used as a primary master clock)
- Can act as an interface between existing systems to Valcom Wireless Systems

Wireless, Wall Mount

Description:

The V-WMCA Wireless Master Clock Transceiver provides a single time standard for wireless clocks. The V-WMCA features browser based setup eliminating the need for resident software.

SPECIFICATIONS

WIRELESS OUTPUT POWER
30 dBm (1 watt)

OPERATING FREQUENCY
915-928 MHz frequency hopping technology

POWER REQUIREMENTS
85 - 265 Vac, 50/60 Hz

PROTOCOLS
Valcom Wireless Communication

AUXILIARY RELAYS
Two Form C Relays rated at 1A @ 24 Vdc

NETWORK
10/100 Mbps Ethernet
Manual or Dynamic Host Configuration Protocol (DHCP) IP address assignment.
Time and date synchronization using NTP

STANDYBY TIME KEEPING
Ten (10) year

DISPLAY
12 or 24-hour mode

DISPLAY SIZE/COLOR
0.56in LED red display

CALENDAR
Built-in calendar with leap year

TIME BASE
Crystal

ENVIRONMENT
Temperature: : 32 to 113 °F (0 to 45 °C)

HOUSING & FINISH
Smooth surface metal case; color, black

DIMENSIONS AND WEIGHT
17.50in H x 11.00in W x 1.75in D
(44.45cm x 27.94cm x 4.45cm)
Weight: 6.50lbs (2.90kg)
Shipping Weight: 7.00lbs (3.15kg)

MOUNTING
 Wall mount

ARCHITECTS AND ENGINEERS

The Master Clock, model V-WMCA, shall be a microprocessor based master clock consisting of a 12 or 24 hour 0.56in LED display and two buttons for programming. The V-WMCA shall be capable of receiving a signal from any NTP or SNTP time server via a local area network or from the internet. The V-WMCA shall have up to ten pre-programmed server addresses which will be accessible for modification over a network interface server for continuous accurate time and redundancy.

The V-WMCA Master Clock (when a wireless transmitter is attached) shall be capable of translating a wired synchronization signal into Valcom's wireless signal, and then broadcasting the wireless signal to secondary clocks. The V-WMCA shall contain two relay circuits that can produce synchronous wire data in the form of 59 minute correction protocol, 58 minute correction protocol, National Time/Rauland protocol, or a once a day pulse for intercom systems. The master clock shall be capable of interfacing with the Valcom's analog clock and digital clocks via RS485 communication protocol.

The V-WMCA Master Clock shall be powered by 85 to 265 Vac/60 Hz The V-WMCA shall be capable of acting as a repeater for another master clock. The V-WMCA shall contain the necessary circuitry and programs so that a typical web browser can access the clock over a local area network. When accessed this way, the clock settings can be modified through a graphic user interface. The V-WMCA Master Clock wireless output power shall be 30 dBM 1-Watt. V-WMCA shall use frequency-hopping technology to receive time data on a frequency range of 915–928 mHz. Operation temperature shall be 32 to 130 °F (0 to 45 °C).

The V-WMCA Master Clock case shall be constructed of smooth surface metal with black finish.

Maximum dimensions shall be 11.00in L x 17.50in W x 1.75in D (27.94cm x 44.45cm x 4.45cm). Weight shall be approximately: 6.50bs (2.90kg).

Warranty information may be found on our website at www.valcom.com/warranty.