MODEL

V-A2412B	12" round clock, black, surface mount, 24V
V-A2416B	16" round clock, black, surface mount, 24V
V-A11012B	12" round clock, black, surface mount, 24V
V- A11016B	16" round clock, black, surface mount, 24V

FEATURES:

- Microprocessor Based Movement
- Two (2) Or Three (3) Wire Correction
- Automatic Communications Protocol Identification For
  - Valcom 2 Wire Digital Protocol
  - Synch-Wire 59th Minute Correction
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  - Synch-Wire National Time and Rauland
- Diagnostic Leds For Ease of Maintenance
- Fully Automatic Plug and Play
  – No Settings Required
- Built-In Self-Test Function
- Automatic Polarity Detection
- Quick Correction (Valcom 2-Wire)
- Energy Efficient
- UTP Connectivity (24V Only)
- Plug in Molex Connectors
- Low Profile
- Metal Case with Polycarbonate Crystal
- Available In 24 VDC
- UL, Cul, And FCC Approved

DESCRIPTION:

Valcom's state-of-the-art analog clocks incorporate multi-function software, which allows the customer to select communication protocols in the field. This feature provides significant flexibility. The microprocessor-based movement allows you to select anything from a basic sync-wire protocol to a technologically advanced 2-wire digital communication protocol.

The clocks incorporate our Valcom 2-wire digital communication protocol, which transmits a stream of data, which constantly checks and corrects every clock in the system, thus guaranteeing that the clocks will never deviate from each other. This data streaming technique makes it possible to mix power and communication signals on the same two wires, thus providing for immediate time correction without replacing existing wiring. The low wire count makes Valcom clocks ideal for renovation projects as well as new installations. Valcom slave clocks are compact, energy efficient and reliable. Valcom clocks save up to 85% of the energy used by other clock models on the market. The clocks are available in 12" and 16" round cases. The low profile, shallow metal cases eliminate the need for custom back boxes. By using electronic components and eliminating moving parts, Valcom analog clock lines have much less chance of mechanical failure.

Specifications

TIME BASE
Internal

VOLTAGE INPUT
12 – 24 VDC
85 -135vac/60 Hz

AVERAGE CURRENT CONSUMPTION
20 mA @ 110Vac
15 mA @ 24VDC

CORRECTION CURRENT
10 mA50

COMPLIANCE
UL, cUL, and FCC approved

HAND TOLERANCE
Hour and Minute Hand +/- ¼ second
Second Hand +/- ½ second

COLOR
Black

DIAL
Durable polystyrene

CASE
Black metal

CRYSTAL
Shatterproof, side-molded polycarbonate

OPERATING TEMPERATURE
32 to 130°F (0 to 45°C)

DIMENSIONS AND WEIGHT
12-inch clock: 12.81" diameter/ 1.2 "depth
16-inch clock: 16.81 "diameter/ 1.6" depth
Weight: 12" – 4 lbs   16" – 6 lbs

MOUNTING (OPTIONAL)
V-BDM12-S for 12" Wired Analog
V-BDM16-S for 16" Wired Analog

ARCHITECTS' AND ENGINEERS

Field Selectable Analog Slave Clock The secondary clock shall be a Valcom analog clock with field-selectable correction protocols. The clock shall have plug and play features with no settings required. The clock shall feature automatic polarity detection, automatic protocol detection and self-diagnostics. It shall be designed for use with either a 2-wire or 3-wire system using the Valcom V-D11025 or the V-D11040 series digital clocks, and/or the Valcom MultiPath, Class Connection or V-2924 Communications System. The Valcom Communications System can regulate the clocks by Valcom 2-wire digital communication protocol or via 2-wire/3-wire protocols. Upon receipt of digital signal, the clock shall immediately self-correct.

The secondary clock shall also accept sync-wire communication protocols with hourly and daily correction. The secondary clock shall have a microprocessor-based movement. The clock shall have a low-profile/semi-flush smooth surface metal case. The crystal shall be shatterproof polycarbonate with no visible molding marks. Glass is unacceptable. The clock shall have black hour and minute hands and a red second hand. The clock shall be U.L., c.U.L. and F.C.C. compliant

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