V-A2412B/V-A2416B Wired Analog Clock

- Cost-effective, precision time clocks
- Innovative 2-wire correction
- CAT 3/5/6 cable
- Low energy circuits
- 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
  - Synch-wire 58th minute correction
  - 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)
- Available in 12in & 16in diameter
- UL listed
- Indoor use

12in, 24 Vdc   *16in, 24 Vdc*
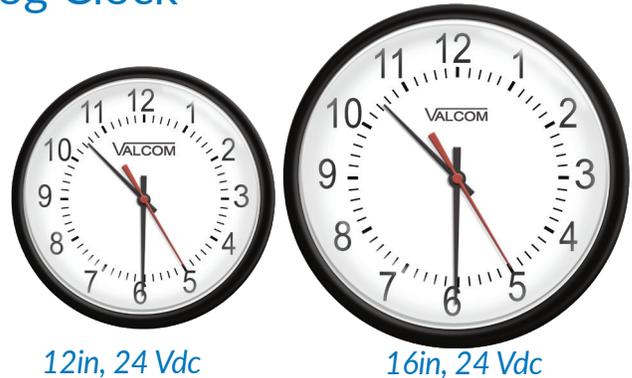
Description:

The V-A2412B and V-A2416B Wired Analog Clock incorporates multi-functional software, as well as a microprocessor based movement and a real-time internal clock. The clocks include automatic calibration and time protocol detection, as well as enhanced diagnostic functionalities such as reset, sync now, find hands, and more. The V-A2412B and V-A2416B feature round metal cases with shatterproof polycarbonate crystals and are lightweight and durable. The V-A2412B and V-A2416B Wired Analog Clock are compliant with a variety of industry standard correction protocols.

Valcom's synchronized wired clocks are ideal for schools, universities, offices, government agencies, healthcare, manufacturing and transportation facilities.

Technical Specifications

SPECIFICATIONS

CORRECTION CURRENT
10 mA 50

HAND TOLERANCE
Hour and minute hand +/- ¼ second
Second hand +/- ½ second

TIME BASE
Internal

POWER REQUIREMENTS
12 – 24 Vdc
15 mA @ 24Vdc

ENVIRONMENT
32 to 113 °F (0 to 45 °C)

HOUSING AND FINISH
Color: black
Dial: durable polystyrene
Case: black metal
Crystal: shatterproof, side-molded polycarbonate

DIMENSIONS AND WEIGHT
V-A2412B
12.81in Dia x 1.50in D
(32.54cm x 3.81cm)
Weight: 4.00lbs (1.81kg)
Shipping Weight: 5.90lbs (2.66kg)

V-A2416B
16.81in Dia x 1.60in D
(42.70cm x 4.06cm)
Weight: 6.00lbs (2.72kg)
Shipping Weight: 8.50lbs (3.83kg)

MOUNTING
Surface, double, or flag mount

ACCESSORIES
V-BDM12-S Double-Sided Bracket
V-SMR12A Surface Mount Housing
V-BDM16-S Double-Sided Bracket
V-SMR16A Surface Mount Housing
V-WGACLK Wired Guard

ARCHITECTS AND ENGINEERS

The Wired Analog Clock, model V-A2412B/V-A2416B, shall be an analog clock with a black hour hand, a black minute hand, and a red second hand. The clock shall receive time from a Master Clock using one (and only one) of the following communication formats: Valcom's 2-Wire Communication protocol, 59-minute correction, 58-minute correction, and National Time/Rauland.

The V-A2412B/V-A2416B Wired Analog Clocks shall accept sync-wire communication protocols with hourly and daily correction. The V-A2412B/V-A2416B shall have a microprocessor-based movement allowing selection from a basic sync-wire protocol to a technologically advanced 2-wire digital communication protocol. The V-A2412B/V-A2416B shall have plug and play features with no settings required. The V-A2412B/V-A2416B shall feature automatic polarity detection, automatic protocol detection and self-diagnostics.

The V-A2412B/V-A2416B Wired Analog Clocks voltage input shall be 12-24 Vdc. Average current consumption shall be 15 mA at 24 Vdc. Operation temperature shall be 32 to 113 °F (0 to 45 °C).

The V-A2412B/V-A2416B Wired Analog Clock case shall be constructed of a low-profile/semi-flush smooth surface metal with black finish. The clock case shall be round with 12 or 16 inch diameter. The dial is to be constructed of durable polystyrene material. The crystal shall be shatterproof, side-molded polycarbonate. V-A2412B/V-A2416B shall be suitable for indoor applications. The V-A2412B/V-A2416B shall be UL, cUL, and CE compliant.

The V-A2412B maximum dimensions shall be: 12.81in Dia x 1.50in D (32.54cm x 3.81cm). Weight shall be approximately: 4.00lbs (1.81kg). The V-A-A2416B maximum dimensions shall be: 16.81in Dia x 1.60in D (42.70cm x 4.06cm). Weight shall be approximately: 6.00lbs (2.72kg).

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