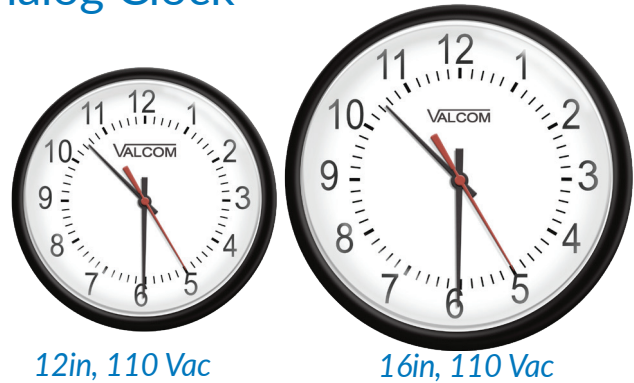


# Technical Specifications

## V-A11012B/V-A11016B 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



### Description:

The V-A11012B and V-A11016B 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-A11012B and V-A11016B feature round metal cases with shatterproof polycarbonate crystals and are lightweight and durable. The V-A11012B and V-A11016B 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.

2022 Rev 1.8.10

# 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

85 -135 Vac/60 Hz

20 mA @ 110 Vac

### 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-A11012B

12.81in Dia x 1.50in D

(32.54cm x 3.81cm)

**Weight:** 4.00lbs (1.81kg)

**Shipping Weight:** 5.90lbs (2.66kg)

#### V-A11016B

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-WGACKL Wired Guard

## ARCHITECTS AND ENGINEERS

The Wired Analog Clock, model V-A11012B/V-A11016B, 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-A11012B/V-A11016B Wired Analog Clocks shall accept sync-wire communication protocols with hourly and daily correction. The V-A11012B/V-A11016B 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-A11012B/V-A11016B shall have plug and play features with no settings required. The V-A11012B/V-A11016B shall feature automatic polarity detection, automatic protocol detection and self-diagnostics.

The V-A11012B/V-A11016B Wired Analog Clocks voltage input shall be 85-130 Vac 50/60. Average current consumption shall be 25 mA

at 110 Vac. Operation temperature shall be 32 to 113 °F (0 to 45 °C).

The V-A11012B/V-A11016B 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-A11012B/V-A11016B shall be suitable for indoor applications. The V-A11012B/V-A11016B shall be UL, cUL, and CE compliant.

The V-A11012B 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-A11016B 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](http://www.valcom.com/warranty).