



SPECTRACOM

Synchronizing Critical Operations®

TimeView® 312 Wireless Analog Clock

Models TV312U and TV312G



- **Perfect for Time and Attendance Systems, General Displays, and Alarms.**
- **Built-in Radio Receiver with Antenna**
- **Step Second Hand**
- **Accurate to 250 Milliseconds Relative to UTC**
- **Optional Event Alert Features**
- **Self-Adjusting After Power Interruption**
- **One-Year Warranty**

The TimeView® analog clock is an easy way to provide system-wide, synchronized time using a wireless solution. The Spectracom wireless clock system delivers coordinated system time to all wall displays *without hardwiring*. A wired model is also available.

The analog clock face is ideal for airports, hospitals, and other applications in which a traditional 12-hour, round clock is desired. The Spectracom analog clock combines the accuracy of a digital clock with the traditional look of an analog clock.

A typical system includes the Spectracom NetClock®, a TimeBurst™ module, and TimeView wireless clocks. Unlike other systems that require multiple transmitters and antennas in close proximity to the displays, Spectracom solutions use the existing conventional (non-trunked) UHF FM commercial radio system (Model TV312U), UHF FM government-band radio system (Model TV312G), or a pager system with audio input (depending on your requirements) to transmit accurate, synchronized time from the central communications system to any site in the operation. The TimeBurst receives time from the NetClock through an RS-485 port and connects to the radio transmitter. A user-defined schedule automatically keys the transmitter and sends a coded time-of-day digital burst.

All TimeView 312 analog clock models have internal radio receivers and built-in antennas. Each clock decodes the TimeBurst transmission and sets its internal clock to within 250 milliseconds of the NetClock's time.

The optional Event Alert features provide visible and audible alert systems. Commands are executed using the TimeBurst Model 8185, Option 01 for Event Alert.

Spectracom solutions provide Legally Traceable Time® to synchronize your critical operations. Legally traceable time stamps provide necessary evidence and validation of events to reduce liability risks.

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PERFORMANCE

TIMING ACCURACY ± 250 milliseconds

RADIO RECEIVER

- FM receiver; supports standard and narrow-band FM voice channels
- 6.25 KHz channel spacing
- 2.5 or 5 KHz FM deviation
- Operates on 25 or 12.5 KHz FM deviation
- UHF (commercial band): 440-470 MHz (programmable)
- UHF (government band): 406-420 MHz (programmable)

SENSITIVITY -107 dBm (1 uV) typical at receiver RF input

FRONT PANEL

DISPLAY

- 12" diameter clock face
- Arabic numerals
- Step second hand
- Black hour and minutes hand
- Quiet operation

ORANGE LED INDICATOR

- Off when in sync
- On continuously when out of sync
- Flashes once per second during self-adjustments
- On for one second when time data is received
- Flashes for 1/8 second at top of minute (:59:00)
- Flashes twice for 1/8 second at top of hour

TIME TO SYNCHRONIZE HANDS

- Self-adjusting after power interruption
- Average case (6-hour error): 31 minute
- Daylight Saving Time (spring forward one hour): 5 minutes
- Daylight Saving Time (fall back one hour): 55 minutes

RF METER

- LED indicator lights

REAR PANEL

CONTROLS

Test button to display RF signal strength. RS-232 setup port for other parameters, such as time, frequency, and calibration of analog display. Settings retained in non-volatile memory.

OUTPUT PORTS Two RS-485 output three-position terminal blocks

- Once per-second serial time code (Format 0), 9600 baud
- Format 5 output included for Event Alert options
- Capable of driving wired wall clocks (TV210W/TV400W/TV312W), TimeTap® (8179T)
- Accurate to ± 75 msec (updated once per hour)

POWER

10-year storage/operating life lithium battery maintains internal time during power interruption

PHYSICAL & ENVIRONMENTAL

SIZE/WEIGHT

- 14" (356 mm) diameter housing
- 11.75" (298 mm) dial imprint area
- 2.8" (71 mm) depth
- 2 lbs (0.9 kg)

ENVIRONMENTAL

Operating Range: 32° F to 140° F (0° C to 60° C)
Storage Range: 40° F to 185° F (-40° C to 85° C)
Relative Humidity: 10–95%, non-condensing

AGENCY APPROVALS

- UL/CSA (power supply)
- FCC Part 15 Class B

WARRANTY ONE-YEAR LIMITED WARRANTY

ORDERING INFORMATION

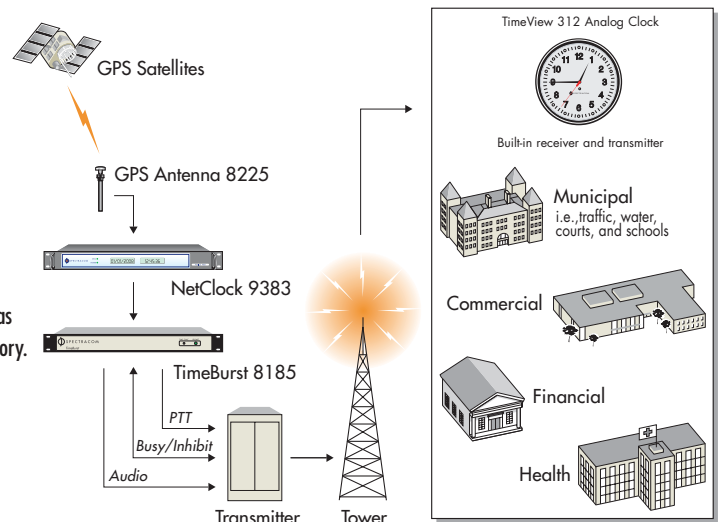
TimeView® Analog Clock

TimeView 312 Analog Clock – Model TV 312U

TimeView 312 Analog Clock – Model TV 312G

Option 03 RF Meter and Event Alert System: top and bottom lights (LEDs) and internal buzzer

TIMEVIEW 312 DISPLAY BLOCK DIAGRAM



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