



NetClock® WiSync™

Wireless Clock System



FEATURES

- Synchronize clocks to computer networks, voice and video systems, telephony, security systems, building automation, access control, fire alarms, electronic record systems, etc.
- Wireless, battery-powered analog (24/110 VAC also available)
- 2.5" and 4", 4- and 6-digit clocks
- Each clock acts as a transmitter and a repeater for a robust wireless mesh network
- Proven 915 – 928 MHz frequency-hopping technology for clear signal and to eliminate any interference issues
- No FCC license required in North America (contact local regulatory authorities for other regions)
- Made in the USA

APPLICATIONS

- Hospital
- Higher Education campuses
- Manufacturing/Industrial complexes
- Government buildings
- Transportation centers

Spectracom's wireless clock system offers a unique time display option for organizations with time-sensitive operations. The system uses the security and reliability-leading NetClock®/GPS network time server as its master clock for traceability to UTC (Coordinated Universal Time). Legally Traceable Time® from the NetClock is broadcast by a transmitter, synchronizing the displays to all other network systems and devices throughout the facility.

This innovative system offers an easy, cost-effective solution by providing accurate, synchronized time displays without expensive, disruptive installation procedures. Because there are no wiring requirements, install times are drastically reduced, and it is ideal for renovation projects – no need to worry about asbestos issues or messy, in-wall electrical installation work – as well as new construction.

The system uses a rack-mount network-based transmitter with a remote antenna that works much like an IEEE-802.11 wireless router. It receives its time from a network time server via NTP (or from RS-485 from a NetClock® via a twisted pair). It transmits a time signal every minute. Once a Spectracom clock receives and synchronizes to the signal, it becomes a transmitter, creating a robust and efficient wireless mesh network. Such a system provides significant advantages by improving signal strength and coverage territory as more clocks are added.

The system is easily scalable as additional needs develop in the future. In applications across a large campus, Spectracom offers an optional repeater to maintain the signal.

Spectracom's wireless clocks transmit a stream of data every minute from powered versions and every two hours in normal mode (5 year life) or every four hours in economy mode (8 year life) from battery-powered units.

New features include greater clock sensitivity for longer transmission range, enhanced clock diagnostics, and network-manageable transmitter. All new system components are backwards compatible with previous generations.

PERFORMANCE

OPERATING FREQUENCY

915 – 928 MHz frequency-hopping technology.
No FCC license required.

RF POWER OUTPUT

Transmitter: 30 dBm
Repeater: 30 dBm
Clock: 8 dBm

INPUT SENSITIVITY -103 dBm

TRANSMITTER AND REPEATER SPECIFICATIONS

ANTENNA remote (transmitter), integral (repeater)

RANGE 6,500 ft. in open space

POWER

Transmitter: 85 – 265 VAC, 50 – 60 Hz
(power cord supplied)
Repeater: 85 – 230 VAC, 50 – 60 Hz, hardwired
(power cord not supplied)

SIZE/WEIGHT

Transmitter: 11" L x 17.5" W x 1.75" D/6.5 lbs.
Repeater and remote Antenna: 11" L x 8" W x 1.7" D/4 lbs.

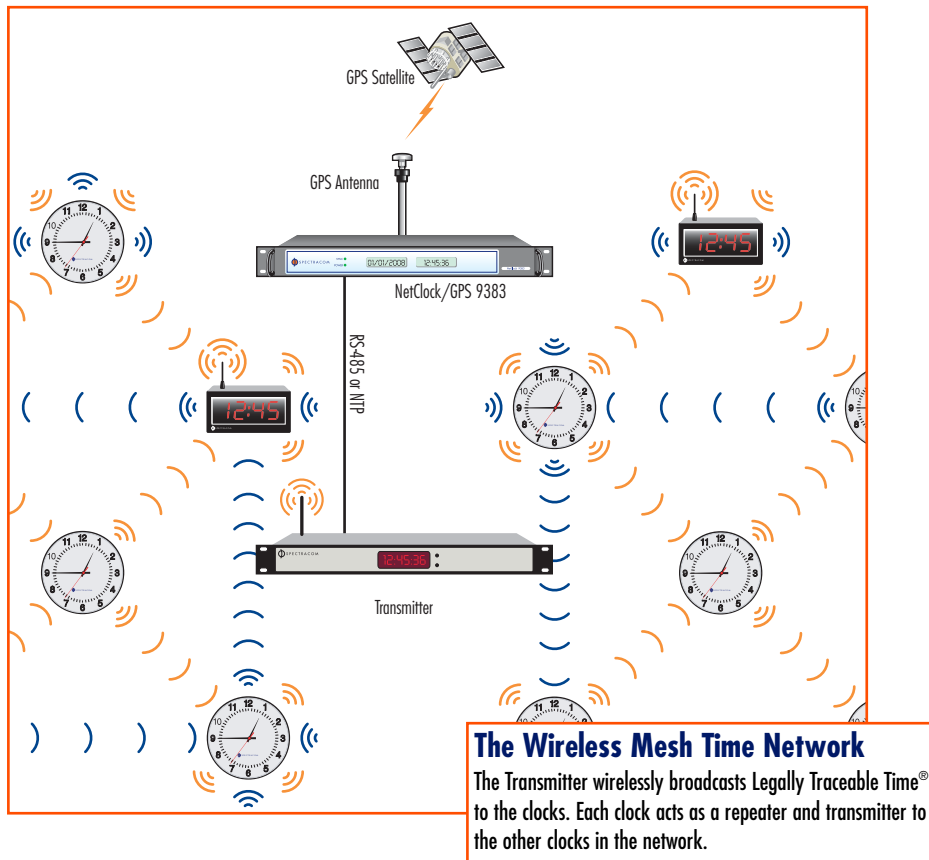
DISPLAY (TRANSMITTER ONLY) .56" 6-digit LED

TEMPERATURE RANGE

Operating: 0° C to +45° C
Storage: -15° C to +70° C

WARRANTY

TWO-YEAR LIMITED

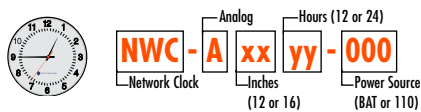


CLOCK SPECIFICATIONS

ANALOG 12" or 16" diameter clock face
Dial: Arabic numerals, 12- or 24-hour format, durable polystyrene
Housing: black smooth surface ABS
Crystal: shatterproof, side-molded, polycarbonate
Hands: red second hand; black hour and minute hands
Time to synchronize hands: 5-minute maximum
Quiet operation
Diagnostics: rear panel test buttons and LED indicates last sync, signal strength, mechanical test, battery level
Battery versions: 2 "D" cell (included), 5-yr normal mode, 8-yr economy mode, provided good reception

DIGITAL 4 or 6 red digits, 2.5" or 4.0"
100 ft. visibility (2.5")
250 ft. visibility (4.0")
12- or 24-hour mode
2 brightness settings
Loss of communications alert
Time offset in each clock for "zone clocks" (6-digit clocks only)

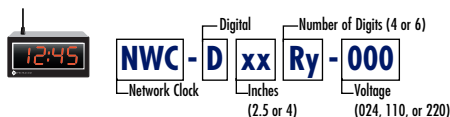
ORDERING INFORMATION



Example: NWC-A1224-BAT = Battery-operated, 12-Inch, 24-Hour Analog Clock
NWC-A1612-110 = 110V, 16-Inch, 12-Hour Analog Clock

TRANSMITTER: TCVR-NTP-2000

REPEATER: RPTR-RS-2000



Example: NWC-D25R6-024 = 2.5-Inch, 6-Digit, 24V Digital Clock
NWC-D40R4-220 = 4.0-Inch, 4-Digit, 220V Digital Clock

MASTER CLOCK:

NetClock network time server:
consult factory for options