

NetClock® IPSync™

IP (PoE) Synchronized Clocks



Features

- Synchronize clocks to computer networks, voice and video systems, telephony, security systems, building automation, access control, fire alarms, electronic record systems, etc.
- Power over Ethernet, IEEE802.3f
- 2.5" and 4", 4- and 6-digit clocks
- 12" and 16" analog clocks
- Each clock synchronizes to network time server via network time protocol (NTP)
- Network management through web interface
- Automatic configurable bi-annual daylight savings time/summer time adjustment
- Made in the USA

Applications

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

Synchronizing critical operations is made easier and more effective with the network-based, NetClock® WiSync™ IP Synchronized Clocks. For ease of installation and management, the clocks are a network-centric evolution of Spectracom's popular NetClock® WiSync™ wireless clock system. It leverages the wired network infrastructure of a facility to allow for reliable clock synchronization over the LAN/WAN.

Each analog or digital clock acquires an IP address via DHCP, or is configured for a static address. A web browser interface allows easy configuration of time zone, DST/summer time adjustment, and display (digital clocks only). Each clock is configured to receive time from up to 10 network time servers, such as Spectracom's NetClock® Network Time Server, supporting redundancy.

Several power options are available including power over Ethernet per the IEEE802.3f specification. If the 48 VDC is not available through the network, then a PoE power injector is available to supply power from 110/220 VAC.

Communications

Network Port

RJ-45, 10/100-baseT

Protocols

- Simple Network Time Protocol (STNP) for synchronization
- DHCP/BOOTP for automatic acquisition of network address, name servers, and time server configuration
- HTTP for browser-based configuration and management

Time Servers

10 possible NTP servers to poll

Email Alerts

Display failures, power failures or resets, uncommon time drifts, count up/countdown activation

Microprocessor Control

- Nonvolatile memory saves configuration settings (lithium battery back-up)
- Configuration through web interface
- Time zone offset, bi-annual DST correction

Temperature

Operating: 0 C to +45 C
Storage: -15 C to +75 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

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

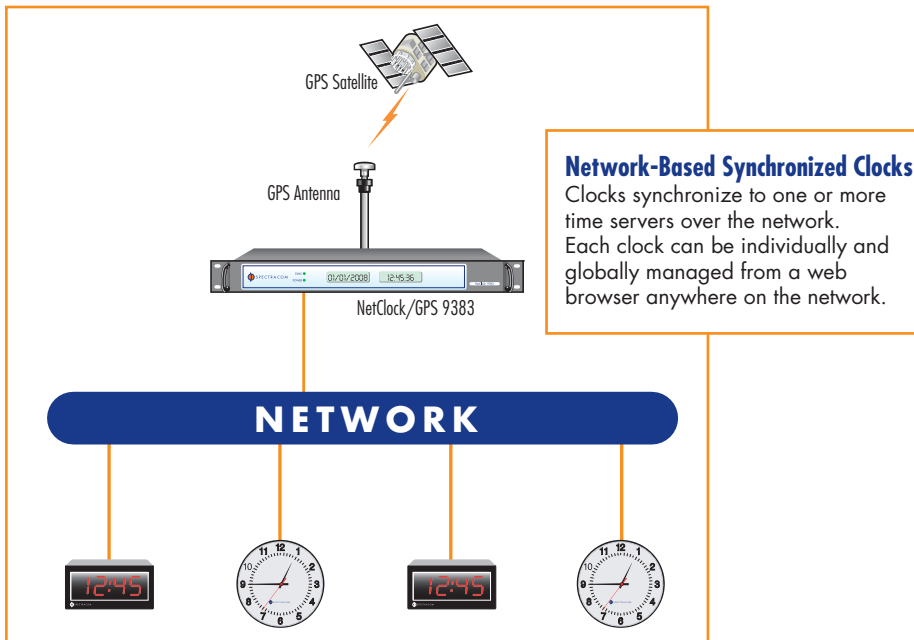
Size (Housing Dimensions)

2.5", 4 Digit:
11.06" L x 5.35" W x 3.90" D

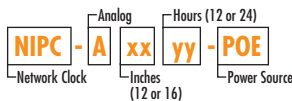
2.5", 6 Digit:
14.41" L x 5.35" W x 3.90" D

4.0", 4 Digit:
14.10" L x 7.56" W x 3.86" D

4.0", 6 Digit:
19.26" L x 7.56" W x 3.86" D



Ordering Information



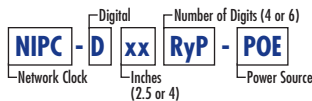
Example:

NIPC-A1224-POE = PoE-Ready, 12-Inch, 24-Hour Analog Clock

NIPC-A1612-POE = PoE-Ready, 16-Inch, 12-Hour Analog Clock

Network Time Server

NetClock network time server
Consult factory for details



Example:

NIPC-D25R6P-POE = 2.5-Inch, 6-Digit, PoE-Ready Digital Clock

NIPC-D40R6P-POE = 4.0-Inch, 6-Digit, PoE-Ready Digital Clock

PoE Power Injector

Available for PoE-Ready clocks on networks without power over ethernet

PoE-Ready clocks do not include a power injector which is available separately (order model number NIPC-INJEC-POE)