Wireless Time System

Digital NTP Wi-Fi Clocks

Synchronization by NTP

Wi-Fi Connected

GlobalTime digital Wi-Fi clocks provide synchronized time via a facility in a system that's easy to install and manage. These digital Wi-Fi clocks are connected to network via Wi-Fi, eliminating the cost of network cables distribution.

NTP Introduction

Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variaborks. NTP is the most popular time synchronization protocol in current use.

NTP is intended to synchronize all participating computers to within a few milliseconds of Coordinated Universal Time(UTC). It uses the intersection algorithm, a modified version of Marzullo's algorithm, to select accurate time servers and is designed to mitigate the effects of variable network latency. NTP can usually maintain time to within tens of milliseconds over the public Internet, and can achieve better than one millisecond accuracy in local area networks under ideal conditions. Asymmetric routes and network congestion can cause errors of 100 ms or more.

Technical Specifications

General

Digit Size:	4 Inch
Viewing Distance:	150+ feet (50+ meters)
Accuracy:	± 40 millisecond
Mounting Options:	Surface, Pendant, Cantilever, Double-sided
Time Format:	12 or 24 hour display
LED Color:	Red, Green, Yellow, Amber
Synchronization:	NTP
Wi-Fi frequency:	2.4 GHz
Supports:	IEEE 802.11 b/g/n
Encryption:	WEP/ WPA-PSK/ WPA2-PSK
Receiving sensitivity:	802.11b:-86d8m(11Mbps); 802.11g:-71d8m(54Mbps)

Shanghai GlobalTime Electronic Co., Ltd
Floor 7, Building 4, No. 651, Wanfang Road, Minhang District, Shanghai, China / 201112
Tel: +86 21 3653 1186 Fax: +86 21 3653 1185
Email: contact@ntpclock.com Website: www.ntpclock.com

Network

Protocols Supported:	NTP, HTTP
NTP Protocol Modes:	C/S mode
IP Address Assignment:	Static IP or DHCP
Transport Protocol:	TCP/ IP
Device Management:	Web-based (requires web browser) or software

Power supply

Power:	12V DC for red/amber/yellow clocks, 18V DC for green clocks

Environmental

Operating temperature:	-5℃ to 55℃
Operating humidity:	10%-95%, non-condensing

Housing

Case Material:	Reinforced Acrylonitrite Butadiene (ABS), metal, stainless steel (SS304)
Case Color:	ABS in black, metal in black or white, stainless steel in grey
Dimensions:	For 4 digit clock: 30.2cm*15.7cm*5.7cm (single-sided); 30.2cm*15.7cm*8cm (double-sided) For 6 digit clock: 43cm*15.7cm*5.7cm (single-sided); 43cm*15.7cm*8cm (double-sided)
Weight:	For 4 digit clock: 0.7kg (single-sided); 1.2kg (double-sided) For 6 digit clock: 0.9kg (single-sided); 1.5kg (double-sided)

Compliance: CE, FCC, RoHS, ISO

Features

- Available with 4” digits, 4 digit display or 6 digit display
- Red display standard; Optional White, Blue, Green, Amber, Yellow displays
- Time is automatically set by Simple Network Time Protocol(SNTP)- no master clock or serial connection required
- Supports Wi-Fi- **no need of network cable distribution.**
- Static IP or DHCP addressing
- 12 or 24 hour display
- Automatic Daylight Saving Time change (if applicable)
- Adjustable brightness (brilliant, bright, normal, dim, off)
- Capability to receive realtime countdown command
- If connection to NTP server is lost the clocks will continue to run on the built-in time base. When the connection is restored it will synchronize automatically.

Shanghai GlobalTime Electronic Co., Ltd
Floor 7, Building 4, No. 651, Wanfang Road, Minhang District, Shanghai, China / 201112
Tel: +86 21 3653 1186 Fax: +86 21 3653 1185
Email: contact@ntpclock.com Website: www.ntpclock.com

• The clock features time loss notification by having a light on on the right lower corner
• Can be single sided (has one display) or double sided (has two displays)

Single-sided

Double-sided

Ceiling Mounting

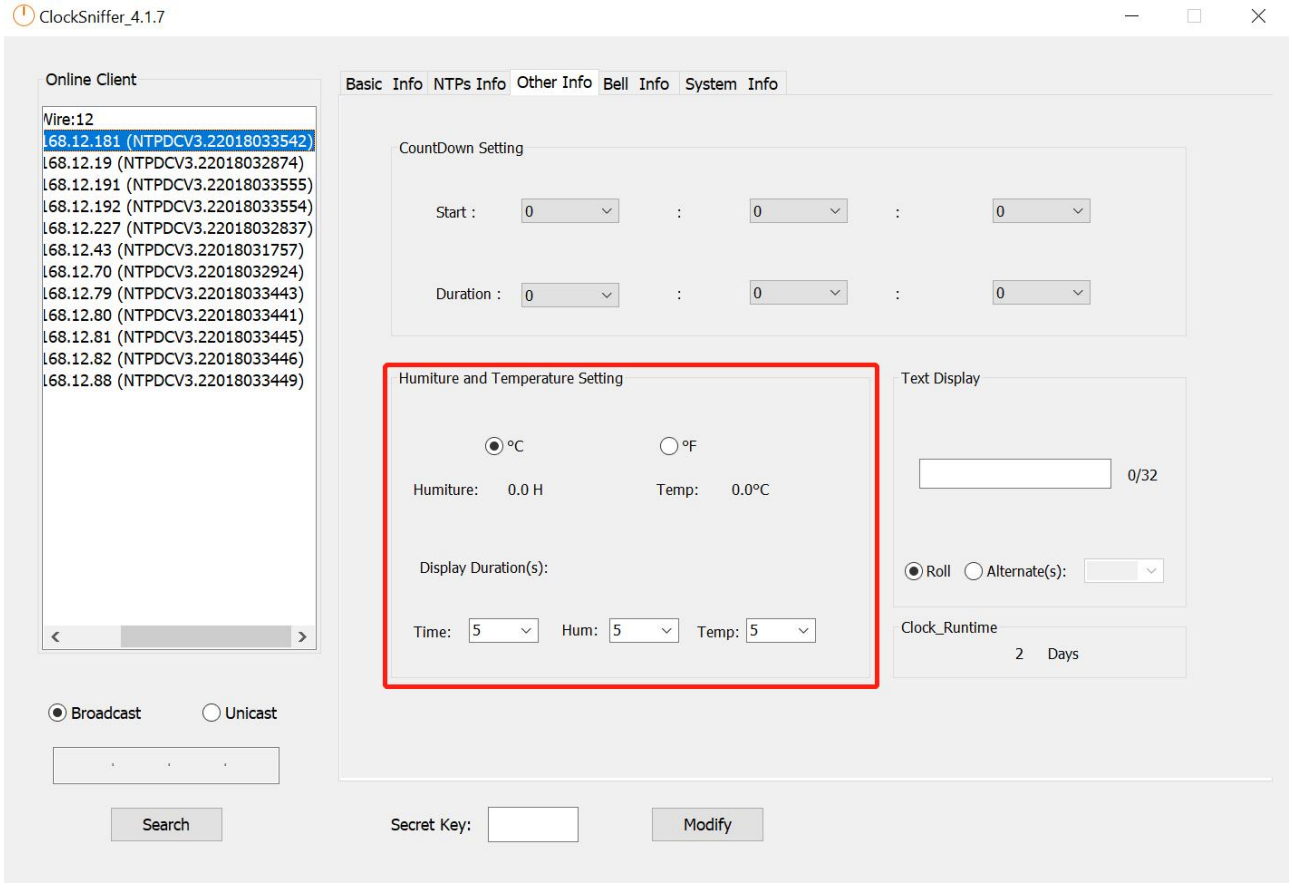
Wall Mounting

Optional

Capable of interface with:

(1) Temperature or humidity sensor

We can add a sensor to the clock then it can display time, temperature, humidity alternately:

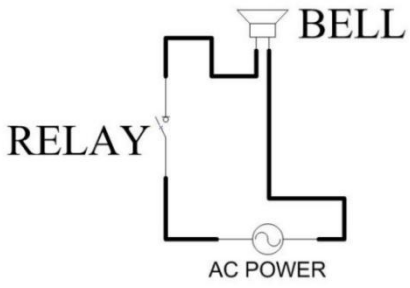


Humiture and Temperature Setting by Software

(2) Built-in bell relay

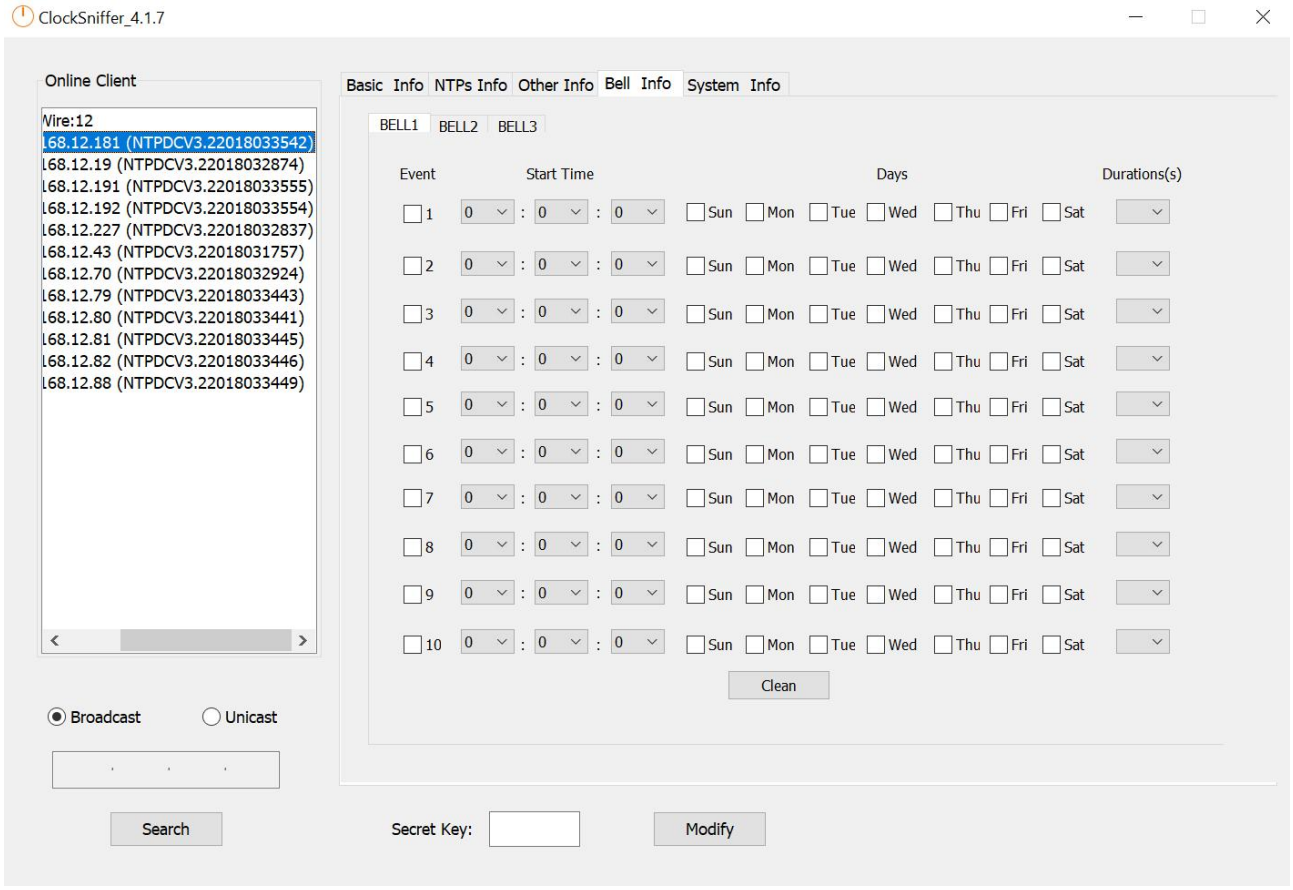
We can add a built-in bell relay to the clock. Then the clock can be connected to a bell. The bell can be programmed to ring at 30 different moments using the management software.

The voltage and current of the bell should be ≦ 5A 30VDC, or ≦ 5A 250VAC.



Connection

Bell Connector



Bell Setting by Software

We reserve the right to make changes at any time.