

# Clocks 2

Analog

Digital Clocks

Time-Zone & Electronic

**syncTECH®**

Wireless Synchronized Time

2.4 GHz & Wi-Fi

2.1



# 820

14" diameter

With modern graphics and thin bezel

Bezel finish: Any PPP Color with acrylic cover

Quartz battery or **syncTECH** movement, page 10

See Clock Face Selector, page 13

Design: Joe Ricchio and Eric MacDonald



820-39



820-36



820-37



820-38



14" diameter

Clear acrylic design characterized by a floating minimal profile.

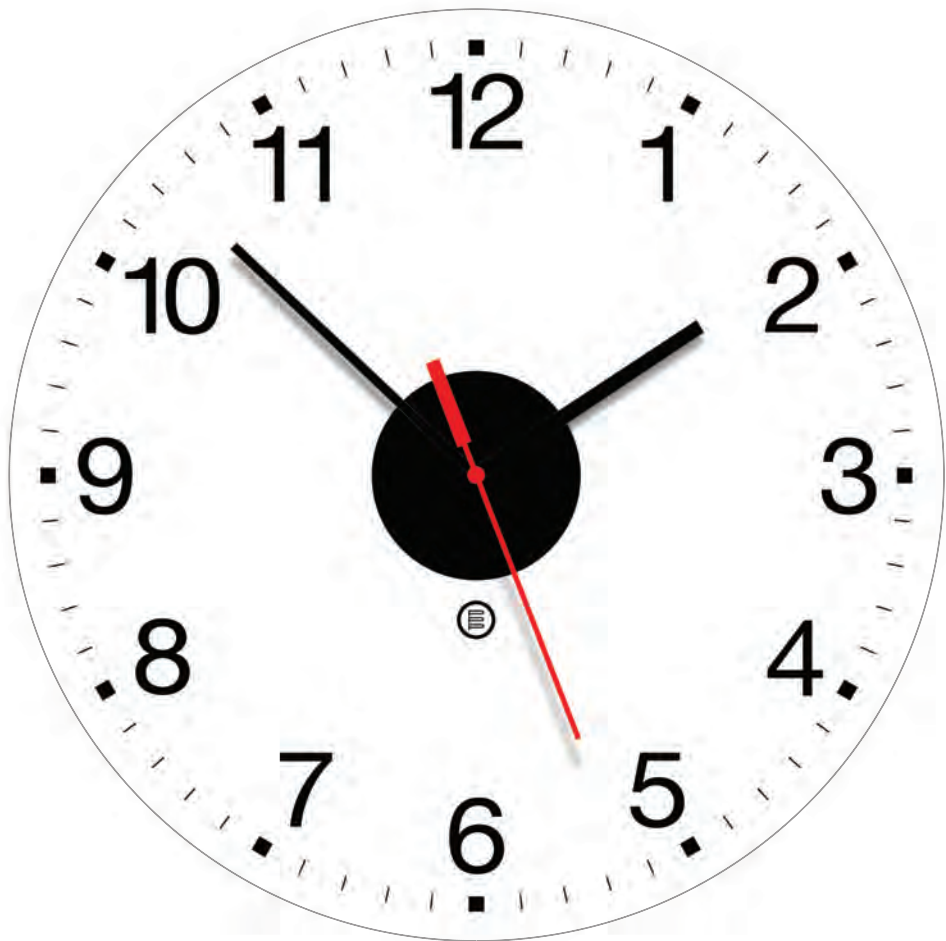
Quartz battery movement

Model available only as shown.

# 835

Design: Joe Ricchio and Eric MacDonald

835



# 300

10" diameter

Bezel finish: Any PPP Color or Polished Chrome

With or without acrylic cover

Quartz battery or **sync**TECH movement, page 10

See Clock Face Selector, page 13



300P-7



300P-14



300-32



300P-5



300-2





12" diameter  
 Bezel finish: Aluminum  
 Face cover: Glass  
 Quartz battery movement  
 Model available only as shown

343



361

400

361-37



13" diameter  
 Bezel finish: Maple  
 With acrylic cover  
 Quartz battery movement  
 See Clock Face Selector, page 13.

400P-2



13" diameter  
 Bezel with beveled edge detail in any PPP textured color  
 With acrylic cover.  
 Quartz battery movement  
 See Clock Face Selector, page 13.



# 382 + 386

12" or 16" diameter

Bezel finish: Any PPP Color or Polished Chrome

With acrylic cover.

Quartz battery or **sync**TECH movement, page 10

See Clock Face Selector, page 13



382-8



382-32



386-14



14" diameter

The concave acrylic cover reduces reflection.

Bezel finish: Any PPP Color

Quartz battery or **sync**TECH movement, page 10

See Clock Face Selector, page 13

# 501



501-2



501-14



501-24



501-8



# 843

14" diameter

Bezel finish: Any PPP Color or Polished Chrome

With or without acrylic cover

Quartz battery or **sync**TECH movement, page 10

See Clock Face Selector, page 13

Design: Joe Sohn



843-5



843P-2



843P-24





14" diameter  
Bezel finish: Any PPP Color or Polished Chrome  
With acrylic cover  
Quartz battery or **sync**TECH movement, page 10  
See Clock Face Selector, page 13

# 845

Design: Joe Sohn



845-14

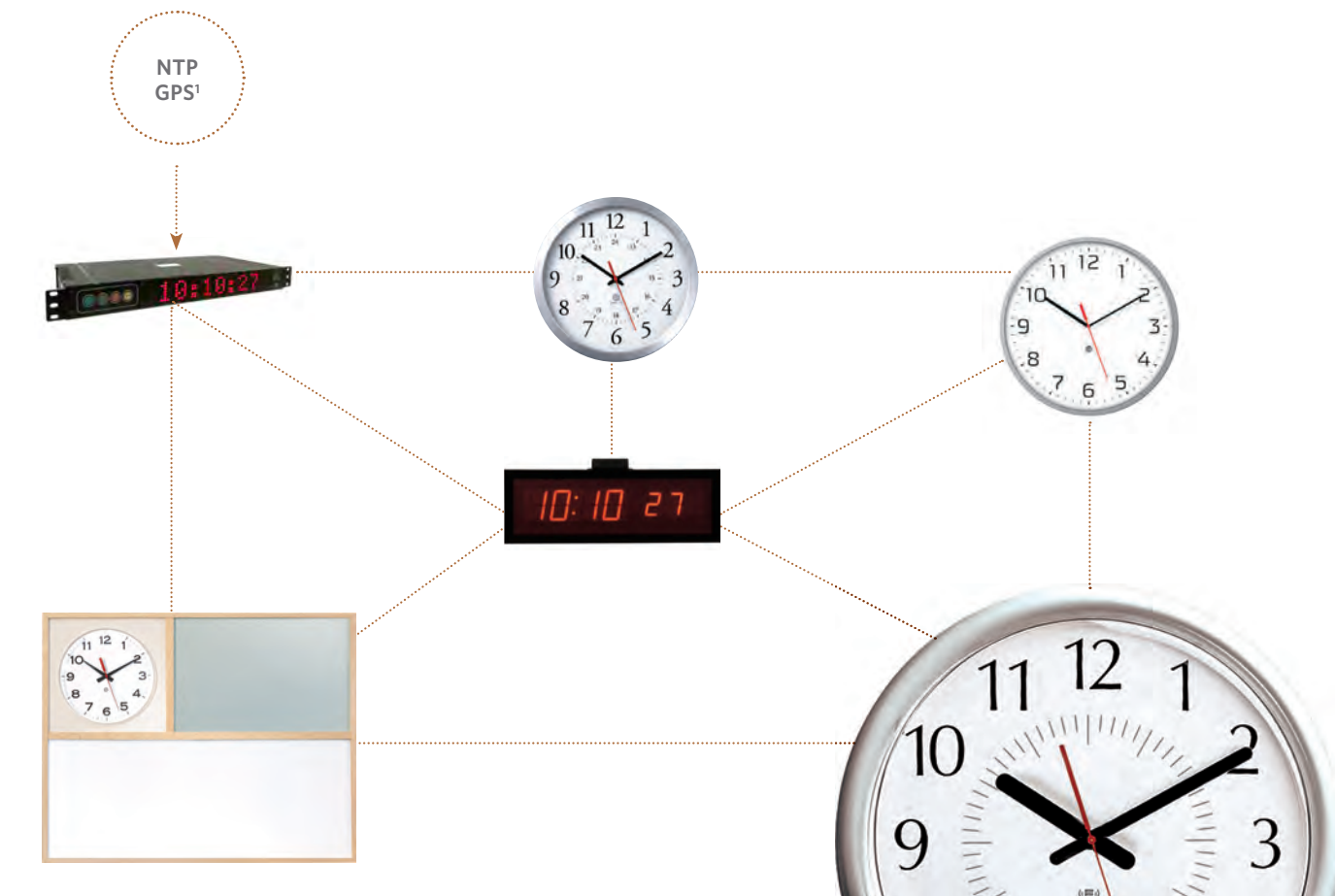


845-32





# 2.4 GHz & WiFi Synchronized Time Systems



## syncTECH® 2.4 GHz

The 2.4 GHz Wireless Synchronized Time System provides a multi-path mesh network for clock-to-clock transmission of synchronized time.

The time signal is then broadcast to all clocks once per second. Each battery-operated clock transmits up to 150 feet in all directions, repeating the synchronized time signal clock-to-clock, throughout an entire facility.

2.4 GHz master clocks obtain accurate U.S. time from two sources:

### Network Time Protocol

Obtains time from either your local or Internet-based\* NTP time servers via the on-board Ethernet interface card.

### GPS

Receives time updates from Global Positioning Satellites through a rooftop antenna with a clear view to the sky. 100-foot cable included.

## syncTECH® Wi-Fi

Combine wireless simplicity with synchronization as clocks receive time information over Wi-Fi from an internet or in-house NTP Server. Simply power the clocks, connect to your network, and go.

PPP Wi-Fi Clocks connect to a wireless local network and are capable of taking the accurate time from any NTP server, so a master clock is only needed where the facilities Wi-Fi signal does not cover the entire area requiring clock installations. The Wi-Fi receiver clocks can be pre-programmed with the addresses of public internet or in-house NTP servers.

**syncTECH Wi-Fi** is ideal for facilities in need of many or just a few clocks spread far apart. It is also a great solution for multi-building campus environments utilizing existing wireless infrastructure.

1. SyncTech 2.4 is available with NTP or GPS time sources. SyncTech Wi-Fi utilizes a public or private NTP server.



# Receiver Clocks



300 Series

10"



380 Series

12" x 16"



500 Series

14"



820 Series

14"



843 Series

14"



WC100

12"



WC2001

17w x 10½h x 1½d"

LEDs: Hour + Minute:4"h; Seconds:2½"h



WC300

17w x 10½h x 1½d"

2.4 GHz Only

Synchronized time shouldn't mean a compromise in design. Corporate, healthcare, educational and government facilities can now provide the most sophisticated time systems incorporated into most PPP analog and digital clocks.

As your needs grow, an unlimited number of PPP clocks can be added without any additional set up or programming.

**syncTECH®** eliminates the time related issues and liabilities associated with manual time maintenance.

Available with multiple clock face graphics and finishes, see page 13.

## BENEFITS

- 10-year battery packs available on most models reduce maintenance and labor costs.
- Automatic Daylight Savings Time adjustments.
- Receiver clocks are available in select PPP analog models with multiple face graphics.
- 2.4 GHz + Wi-Fi are an easy to install synchronized time system, providing years of service.





## TECHNICAL SPECIFICATIONS

	<b>syncTECH® 2.4 GHz</b>	<b>syncTECH® WiFi</b>
<b>Master Clock</b>	2.4 GHz Transmitter included on all master clocks.  A Mini Master is included with every master clock. It can be used to confirm signal coverage, as an accurate time source for installing analog clocks or as a temporary repeater.	None.  Clocks independently receive accurate time from an NTP server via a facility's own Wi-Fi network.
<b>Time Sources</b>	NTP GPS  NTP + GPS receivers can be used in single or simultaneous configurations.	NTP
<b>Accuracy</b>	Accurate to a fraction of a second over 10 years.	Accurate to a fraction of a second over 10 years.
<b>Operating Temperature</b>	32°F - 120°F.	32°F - 120°F.
<b>Operating Humidity</b>	0 - 95% non-condensing.	0 - 95% non-condensing.
<b>FCC License Requirements</b>	No license required.	No license required.
<b>Power Requirements (Master Clocks)</b>	110V AC, internal transformer (included). UL listed wall 'plug-in' type. 10-year lithium battery back up.	—
<b>Typical Installation</b>	Single building construction with receiver clocks placed within 150' radius of one another.	Single or multi-building campuses with wireless infrastructure.
<b>Site Survey</b>	A site plan/survey is available to help determine your exact needs. Contact the factory.	

## SYNCHRONIZED TIME EVERYWHERE

### CORPORATE

Eliminate HR time related conflicts including employee tardiness, missed meetings, or presentations off schedule. Scheduling problems due to an inaccurate time system can impact the entire facility and company. Synchronizing clocks between multiple buildings is easy and cost effective.

### HEALTHCARE

Within healthcare organizations, accurate, synchronized time is critical.

The legal consequences of inaccurate time can be devastating to any facility. **syncTECH®** eliminates potential liabilities from inaccurate, independently set clocks when documenting the exact time for vital statistics, procedures and medical timelines. Transmitter operates on a business frequency, a time tested method of transmitting information, without interference with sensitive medical equipment.

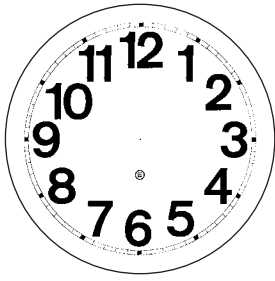
### EDUCATION

Wirelessly synchronize clocks between multiple buildings and across the entire campus. Inaccurate clocks can have a negative impact on the overall image of the university. Students may be late for class due to the inaccurate university time displays. This problem is compounded when time displays differ between buildings on campus.

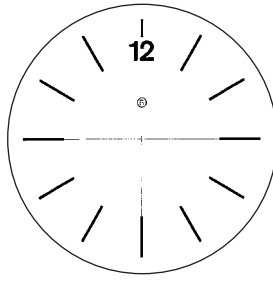




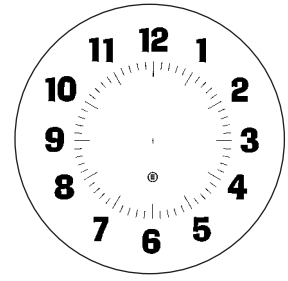
# Face Selector



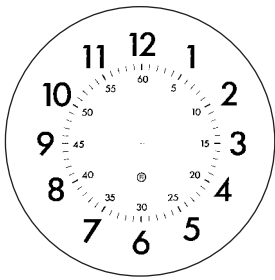
2



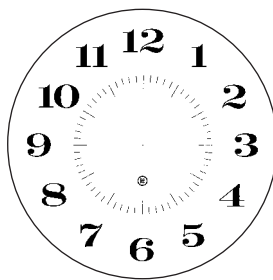
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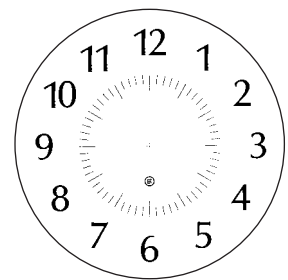
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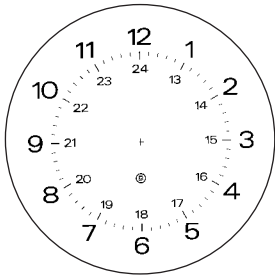
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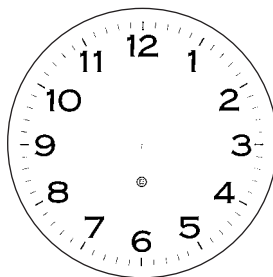
13



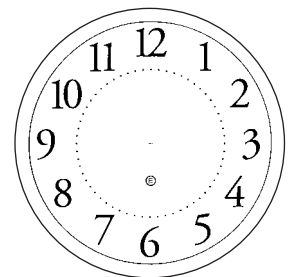
14



24



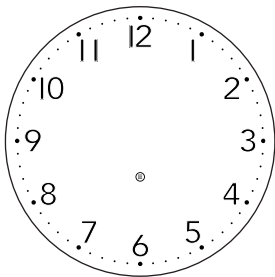
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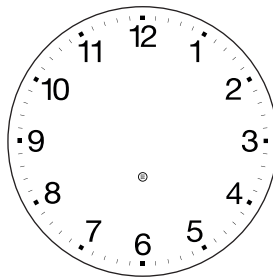
35

FACES 36-39

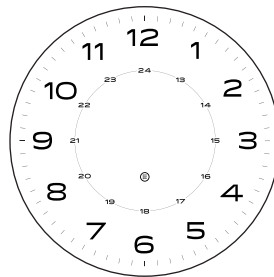
NOT AVAILABLE FOR MODELS 300, 382 + 386



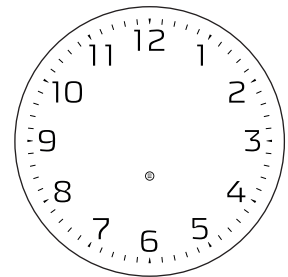
36



37



38



39



# Z-Clocks

## TIME-ZONES /CALENDAR

Red LED's (Light Emitting Diode).  
Segmented matrix.  
Multiple time-zone clocks.  
Calendar clocks, with alpha/numeric readouts.  
Master clock systems.



Z1849 2" h LED | 84" x 6"



Z1853 2" h LED | 48" x 6"



Elapsed timer counter  
Z1805 with up and down counter  
2.5" h LED | 18" x 5"



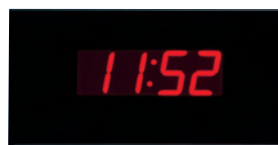
Flush mount optional on all models



Z1862 2" h LED | 10" x 10"



Z1800 Master Clock | 8-1/2" x 5-1/2"  
Remote Control



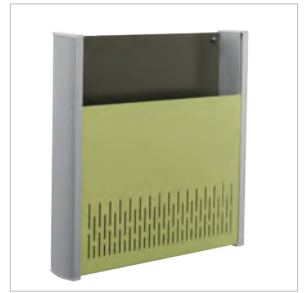
Z1810 2" LED | 12-1/4" x  
6-1/4"



Z1820 4" LED | 15" x 8"



# Expressive Essentials<sup>®</sup>





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EXPRESSIVE ESSENTIALS®

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# 2 - 2.1

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