

WIRED / WIRELESS CLOCK SYSTEMS

Keeping your facility
running **effortlessly**,
on-time and **in-sync**.

Dukane® clock systems deliver **accurate**,
reliable, **flexible**, **user-friendly** and **cost-effective** timekeeping and communication.

Accurate

Relay precise NTP or GPS time-code signals throughout a wired or wireless network via the central Master Clock.

Reliable

Employing a wireless cascading network enables each clock to repeat the signal to other clocks in the system allowing for continuous self-correction and consistent timekeeping throughout the entire facility.

Flexible

Dukane Master Clocks easily interface to paging and intercom systems such as the Dukane CH1000(LT) and legacy Dukane StarCall and MCS350 communication systems for tone generation and audible signaling of bell schedules.

They also conform to the open communications standard adopted by the ZigBee Alliance of manufacturers, giving them compatibility with a wide range of wireless automation platforms available today and in the future.

Choose a wired system for new installations, a wireless system for retrofit installations or a combination of both for complete flexibility.

A wide selection of analog and digital clocks are available with a range of mounting and installation options.

Power digital clocks via plug-in transformer or centralized power supply. Power analog clocks via plug-in transformer, centralized power supply and/or with batteries for total wireless flexibility.

User-Friendly

Dukane clocks are easy to configure thanks to Dukane's exclusive browser-based Master Clock setup. Simply login to the Master Clock for intuitive on-screen configuration.

Easily operate digital clock count-up/count-down timers and messages with a simple wall button.

Cost-Effective

The wireless cascading network reduces system setup and installation costs, thanks to the relatively low signal strength that is necessary for it to function efficiently. This eliminates the expense and time required to obtain an FCC license, install a radio antenna or run wires.



Wireless Synchronization

In a wireless cascading network each clock in the system is capable of receiving and transmitting the wireless signal, enabling it to be used as a repeater while boosting the data stream along the system. With this dual capability there is no limit to the number of clocks that can be installed throughout high-rises, sprawling facilities and small buildings alike.

Because the signal fans out and is repeated by a cascading number of devices, a single clock will typically receive its data from a number of different angles. This dramatically reduces the effect of obstructions, noise sources, or long distances on the reliability of the system. Furthermore, if an individual clock loses its signal, it will link to a nearby clock and automatically synchronize with that new source.

The Dukane 2-Inch and 4-Inch Digital Secondary Clocks (24ZB20/24ZB40) provide a highly visible, even-intensity, long-life display of time. They can be operated in either 12 or 24-hour format, and at either Bright or Normal intensity levels.

These cost-effective digital clocks can be used in a wired time-keeping system or a wireless system with the addition of a ZigBee Wireless Sync Module.

The Dukane 12-Inch Analog Secondary Clocks (24ZBP12R/24ZB12R) ship wireless ready with the ZigBee wireless capabilities built-in.



ZigBee Wireless Sync Module



Wired / Wireless Multi-Clock Systems

Secondary Clock	Master Clock	Single Mount(s)	Dual and Specialty Mount(s)	Power Supplies	Wireless
Digital Secondary Clocks					
2-Inch Digital Secondary Clock (24ZB20) See Pg.6	- o Dukane CH1000(LT) - o Master Clock (24ZBMC100) See Pg.5	- o New install (flush mount): 4-gang masonry backbox (RACO #693 or RACO #698) - o Retrofit install (surface mount): Dukane backbox (8A225) - o Repair (replace 24D20 clock): 6-gang masonry box (RACO #960)	- o 2-inch Dual Digital Clock Wall Mount Enclosure (110-1674) See Pg.8 - o 2-inch Dual Digital Clock Ceiling Mount Enclosure (110-1675) See Pg.8 - o 2-inch Digital Clock/Speaker Baffle (DC802) with 8-inch speaker w/transformer mounted to recessed backbox (RE1175) or Surface backbox (SE1275) See Pg.8	- o AC Power Adapter¹ (24ZB2040 ADAPT) - o AC Clock Power Supply² (110-3693) See Pg.9	ZigBee Wireless Sync Module (24ZB2040)
4-Inch Digital Secondary Clock (24ZB40) See Pg.6	- o Dukane CH1000(LT) - o Master Clock (24ZBMC100) See Pg.5	- o New install (flush mount): 4-gang masonry backbox (RACO #693 or RACO #698) - o Retrofit install (surface mount): Dukane backbox (8A425) - o Repair (replace 24D40 clock): 6-gang masonry backbox (RACO #960)	o 4-inch Dual Digital Clock Housing (110-3902) See Pg.9	- o AC Power Adapter¹ (24ZB2040 ADAPT) - o AC Clock Power Supply² (110-3693) See Pg.9	ZigBee Wireless Sync Module (24ZB2040)
Analog Secondary Clocks					
12-Inch Analog Secondary Clock - Plastic (24ZBP12R) See Pg.7	- o Dukane CH1000(LT) - o Master Clock (24ZBMC100) See Pg.5	N/A	N/A	- o Batteries (24ZBDCELL-2) and/or AC Power Adapter¹ (24ZB12VDC2A) - o AC Clock Power Supply² (110-3693) See Pg.9	ZigBee Wireless Sync Module built-in
12-Inch Analog Secondary Clock - Metal (24ZB12R) See Pg.7	- o Dukane CH1000(LT) - o Master Clock (24ZBMC100) See Pg.5	N/A	o 12-inch Dual Face Mounting Kit (24ZBDCF12R) requires one 24ZB12R secondary clock and a supplemental 12-inch clock (24ZB12RSC) – wired into secondary clock. See Pg. 9	- o AC Power Adapter¹ (24ZB12VDC2A) - o AC Clock Power Supply² (110-3693) See Pg.9	ZigBee Wireless Sync Module built-in
12-Inch Analog Secondary Clock (24SC12R-SPL) See Pg.8	- o Dukane CH1000(LT) - o Master Clock (24ZBMC100) See Pg.5 - o Dukane StarCall - o Dukane MCS350	- o Flush mount: 2-gang masonry backbox or equal³ (RACO #696) - o Surface mount: Wire mold knockout and 2-gang masonry backbox mounted above (RACO #696)	o 12-inch Dual Face Mounting Kit (24ZBDCF12R) requires two 12-inch clocks (24SC12R-SPL). See Pg. 9	- o 120V Adapter Kit (110-3950) - o AC Clock Power Supply² (110-3693) See Pg.9 Analog and digital pigtail assembly available.	N/A

1) AC Power Adapter (24ZB2040 ADAPT) supplies power to one clock and requires AC power outlet.

2) AC Clock Power Supply (110-3693) provides distributed power from a central location for multiple clocks. Number of clocks per power supply will vary based on system configuration.

3) New installations may require either a Model 110-3900 Mounting Plate or 110-3950 120VAC Adapter Kit. For more detailed information, refer to the Model 24SC12R Installation Manual.

Specialized Digital Timing System – Clock Controller (24CC10)

Code blue timing, count up timing, count down timing and score keeping

Master Clock (Controller)	Secondary Clocks	Timer Start Button	Power Supply
Clock Controller (24CC10) <i>Stand alone clock/timer</i> <i>or use in conjunction with Master Clock (24ZBMC100) for corrective control</i> <i>See Pg.5</i>	- o 2-Inch Digital Secondary Clock (24ZB20) - o 4-Inch Digital Secondary Clock (24ZB40)	o Elapsed Timer Start Button (9A1900) See Pg.9	o AC Clock Power Supply (110-3693) <i>for use with additional secondary digital clocks</i> See Pg.9

Retrofit Digital Clock Sync Module

Module	Master Clock (Controller)	Secondary Clocks	Termination
Digital Clock Sync Module (CLKDUK)	- o Dukane CH1000(LT) - o Dukane StarCall with 110-3521A CPC-E card - o Dukane MCS350 with 110-3521A CPC-E card	- o Dukane 2-Inch Digital Secondary Clock (24ZB20) - o Dukane 4-Inch Digital Secondary Clock (24ZB40) - o 2-Inch Digital Secondary Clock (Dukane/Edwards 24D20A) - o 4-Inch Digital Secondary Clock (Dukane/Edwards 24D40A)	o Five pin and three pin terminal strips accepting 26 to 16 AWG



Master Clock (24ZBMC100)

- Configure Master Clock with Dukane's exclusive browser-based Master Clock setup
- Wired or wireless (ZigBee transmitter/receiver) signal delivery to secondary clocks
- No limit to the number of secondary clocks on a wireless network
- Connect to local area network with a standard Cat5, Cat5e or Cat 6 cable with an RJ45 plug.
- 19VDC power adapter

The Master Clock is an on-site, central rack-mounted controller. It can act as a stand alone clock or receive highly accurate time codes from an NTP (Network Time Protocol) or GPS (Global Positioning System) source and relays these codes to local secondary clocks via a wired or wireless signal. The Master Clock broadcasts time and date signals to secondary clocks once per second.

The Master Clock easily interfaces to paging and intercom systems such as the Dukane CH1000(LT) and legacy Dukane StarCall and MCS350 communication systems for tone generation and audible signaling for bell schedules.

The Master Clock supports four dry contact relays for activating bells, lamp controls, or other devices. Each relay can be programmed with up to 48 time-based events.

The Master Clock is configured via computer connected to the local area network using Dukane's exclusive browser-based Master Clock setup. Simply log into the Master Clock for intuitive on-screen configuration. Many settings can also be configured using the front panel buttons.

- Operates independently or as a slave to the Master Clock
- Timer display settings: hours/minutes; minutes/seconds
- Operates from 15VDC or 24VAC
- Mounts in standard 3-gang backbox

The 24CC10 Clock Controller is a compact, microprocessor- controlled unit that enables a Dukane 24ZB20 2-inch Digital Secondary Clock or 24ZB40 4-inch Digital Secondary Clock to be used for count up timing, count down timing, score keeping, and code blue timing. The digital clock serves as the time indicator and display for the clock controller in the room.

The 24CC10 is designed for ease of use, with logical button groupings, intuitive labeling, and LED function guidance. When a particular operating mode is selected, related LEDs illuminate to indicate the commands available in that mode. A lockout feature allows the front panel controls to be disabled, preventing unauthorized use. The 24CC10 and its associated digital clock can operate as a stand-alone clock/timer or as a secondary clock under the corrective control of a 24ZBMC100 Master Clock, Dukane CH1000(LT), Dukane StarCall or MCS350 communication system. The 24CC10 is powered by a separate 24VAC or 15VDC power source.

The 24CC10 has five operating modes:

Clock Mode displays the time on a digital clock in 12 or 24-hour format. In clock mode, the clock controller operates under the control of a master clock. In the absence of a master clock, the clock controller can operate in stand-alone mode, governing the time for its associated digital clock. Stand-alone mode does not provide battery backup for the clock display, therefore it is recommended that a master clock be used.

Count Down Timer Mode counts down to zero from a user-selected start time. The timer can count down by minutes and hours or by seconds and minutes. It can also be set to run silent, to beep when the timer runs down to zero, to chirp once per minute and beep at zero, or to chirp once per minute and once per second and beep at zero. During the count down sequence the timer can be stopped, restarted and reset to its original target value.

Count Up Timer Mode measures the duration of an event. The timer can count up by hours and minutes or by minutes and seconds. It can also be set to run silent, to chirp once per minute, or to chirp once per minute and once per second. During the count up sequence the timer can be stopped, restarted and reset to the initial timer value.

Scoreboard Mode uses the digital clock as a simple scoreboard. The two left digits of the clock display the score of team 1 and the two right digits display the score of team 2.

Code Blue Timer Mode shows the elapsed time from when a code blue call is placed to when the STOP button is pressed on the clock controller. The code blue timer overrides anything currently displayed on the digital clock. This mode requires a contact closure from a separate device that initiates code blue calls.



Clock Controller (24CC10)

- User-friendly front panel controls
- Controls Dukane 2-inch or 4-inch digital secondary clocks
- Operating modes: 12 or 24-hour clock, count down timer, elapsed timer, score board, and code blue elapsed timer



2-Inch Digital Secondary Clock (24ZB20)

- Highly visible 2-inch LED display
- Selectable LED display intensity
- 12 or 24-hour format
- High efficiency
- Can replace the Dukane 24F750A or Dukane/Edwards 24D20(A) digital clocks for easy upgrades
- ESD-hardened
- Wireless capable with ZigBee Wireless Sync Module (24ZB2040)
- 24VAC or 15VDC operation

The Dukane 24ZB20 2-inch Digital Secondary Clock provides a highly visible, even-intensity, long-life display of time in selectable formats. It can be operated in either 12 or 24-hour format and at either Bright or Normal intensity levels. The time display on the secondary clock updates to the Master Clock time at one-minute intervals. This ensures that all system clocks are in precise synchronization and that every clock in the system is as accurate as the Master Clock. The high-efficiency 24VAC design allows many clocks to be operated at great distances from low cost 24VAC power supplies.

For new installations, the 24ZB20 can be flush mounted in a standard 4-gang backbox and can be operated from a 24VAC power supply.

For retrofit installations, the 24ZB20 can be surface mounted using the 8A225 surface mount backbox and can be operated from 24VAC.

For repair situations, the 24ZB20 can directly replace the Dukane 24F750A or Dukane/Edwards 24D20(A) digital clock. The 24ZB20 fits into the 24F750A's or 24D20(A)'s 4 or 6-gang backbox and operates from the existing 24F750A/24D20(A) 15VDC or 24VAC power supply. The pigtail connector of the existing installation can be directly applied to the new 24ZB20 installation without rewiring (Check power supply reserve capacity before upgrading).

Compliance with FCC Part 15 Class A emissions rules have been verified. As a result, the 24ZB20 clock meets the requirements for installation in educational, institutional, and commercial sites. The installed clock is ESD-hardened to IEC 801-2 Standards.

4-Inch Digital Secondary Clock (24ZB40)

- Highly visible 4-inch LED display
- Selectable LED display intensity
- 12 or 24-hour format
- High efficiency
- Can replace the Dukane 24F750A or Dukane/Edwards 24D40 digital clocks for easy upgrades
- ESD-hardened
- Wireless capable with ZigBee Wireless Sync Module (24ZB2040)
- 24VAC or 15VDC operation

The Dukane 24ZB40 4-inch Digital Secondary Clock provides a highly visible, even-intensity, long-life display of time in selectable formats. It can be operated in either 12 or 24-hour format and at either Bright or Normal intensity levels. The time display on the secondary clock updates to the Master Clock time at one-minute intervals. This ensures that all system clocks are in precise synchronization and that every clock in the system is as accurate as the Master Clock. The high-efficiency 24VAC design allows many clocks to be operated at great distances from low cost 24VAC power supplies.

For new installations, the 24ZB40 can be flush mounted in a standard 4-gang backbox and can be operated from a 24VAC power supply.

For retrofit installations, the 24ZB40 can be surface mounted using the 8A425 surface mount backbox and can be operated from 24VAC.

For repair installations, the 24ZB40 clock can directly replace the Dukane 24F750A or Dukane/Edwards 24D40 digital clocks. The 24ZB40 fits into the same 4 or 6-gang backbox and operates from the existing 15VDC or 24VAC power supply. The pigtail connector of the existing installation can be directly applied to the new 24ZB40 installation without rewiring (Check power supply reserve capacity before upgrading).

Compliance with FCC Part 15 Class A emissions rules have been verified. As a result, the 24ZB40 clock meets the requirements for installation in educational, institutional, and commercial sites. The installed clock is ESD-hardened to IEC 801-2 Standards.



12-Inch Analog Secondary Clock – Plastic (24ZBP12R)

- Black ABS plastic housing
- 12-inch round
- Wall mounted
- 12-hour face
- Battery operation and/or AC power adapter or optional 24VAC central power supply
- Wireless capable with built-in ZigBee Wireless Sync Module

The 24ZBP12R Wireless Analog Clock is a 12 in. (30 cm) round, wall-mounted, secondary clock available with a standard 12-hour face. The clock runs on battery and/or AC power and is accurate to within ± 0.2 seconds per day.

The clock synchronizes with the 24ZBMC100 Master Clock at 2:00 a.m. each night to gain its time setting. It only takes a few seconds to receive the signal and to adjust the time to the synchronized setting. Should a clock fail to receive the Master Clock signal, it continues running until the next synchronization cycle. If a clock loses power, it stops running. When power returns, the clock resynchronizes with the Master Clock to regain its time setting.

The clock automatically adjusts for daylight savings time (DST) through the Master Clock. On the DST change date, the clock synchronizes with the Master Clock at 2:00 a.m. and adjusts the time forward or back as required.



12-Inch Analog Secondary Clock – Metal (24ZB12R)

- Metal housing
- 12-inch round
- Wall mounted
- Dual face wall or ceiling mounts available
- 12-hour face
- AC power adapter and/or optional 24VAC central power supply
- Wireless capable with built-in ZigBee Wireless Sync Module

The 24ZB12R Wireless Analog Clock is a 12 in. (30 cm) round, wall mounted, secondary clock available with a standard 12-hour face. The 24ZB12R and the 24ZB12RSC supplemental clock can be mounted together in the 24ZBDCF12R ring housing to become a dual face clock that can be mounted on a wall or ceiling.

Each clock runs on 24VAC power using an optional AC power adapter, or each can be connected to a 24VAC central power supply outfitted with a 24VAC pigtail connector cable (24ZBPSCABLE-10). The 24ZB12RSC supplemental clock draws power from the 24ZB12R clock using a dual side connection cable (included).

The clock synchronizes with the 24ZBMC100 Master Clock at 2:00 a.m. each night to gain its time setting. It only takes a few seconds to receive the signal and to adjust the time to the synchronized setting. Should a clock fail to receive the Master Clock signal, it continues running until the next synchronization cycle. If a clock loses power, it stops running. When power returns, the clock resynchronizes with the Master Clock to regain its time setting.

The clock automatically adjusts for daylight savings time (DST) through the Master Clock. On the DST change date, the clock synchronizes with the Master Clock at 2:00 a.m. and adjusts the time forward or back as required.



12-Inch Analog Secondary Clock (24SC12R-SPL)

- Replaces many popular analog secondary clocks from various manufacturers including Dukane/Edwards 24SS, Latham SS, Simplex 77, National, Rauland 2460, Cincinnati D8, Faraday, Honeywell, and more.
- Can be directly connected to the wiring for the Dukane® 24ZB20 2-Inch and 24ZB40 4-Inch Digital Secondary Clocks and Dukane/Edwards 24D20/A and 24D40/A Digital Secondary Clocks.
- Allows the use of both analog and digital clocks on the same line
- Flush or surface mount
- Ceiling or wall double-face clock
- Shatter resistant
- Works with Dukane Master Clock (24ZBMC100), Dukane CH1000(LT), Dukane StarCall, and Dukane MCS350 systems

The 24SC12R-SPL Analog Secondary Clock combines the advantages of a long-life quartz movement with microprocessor technology to provide a round 12-inch analog clock with contemporary styling.

The 24SC12R-SPL allows the use of both analog and digital clocks on the same line and it can emulate the correction schemes of many popular analog secondary clocks from various manufacturers. This allows the 24SC12R-SPL to be used as a replacement for failed clocks in many systems. The desired emulation mode is selected using a simple DIP switch setting.

The 24SC12R-SPL is designed to be flush or surface mounted while requiring no special backboxes or mounting hardware. It can be mounted as a ceiling or wall double-face clock.

The shatter resistant 24SC12R-SPL has a single piece black metal rim with a convex acrylic lens. Clock face time markings are Arabic numerals in a 12-hour format with black hour and minute hands and a red second hand.

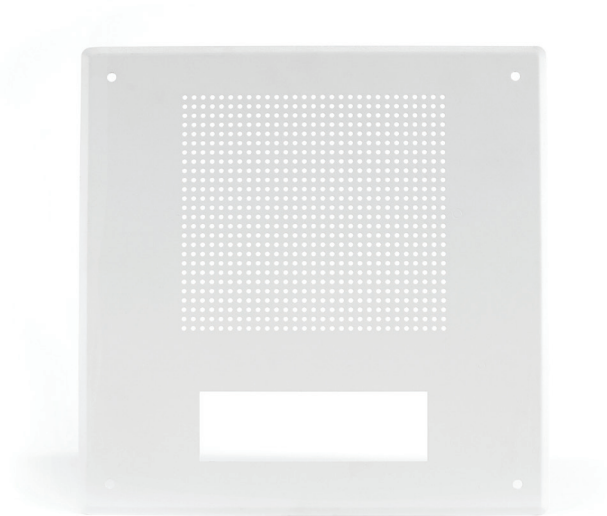
The 24SC12R-SPL complies with FCC Part 15 Class A and meets the requirements for installation in educational, institutional, and commercial sites. The installed analog clock is ESD-hardened to IEC 801-2 standards.



2-Inch Dual Digital Clock Housings – Wall or Ceiling Mount (110-1674/110-1675)

- 2-inch Digital Clock Dual Wall Mount Enclosure (110-1674)
- 2-inch Digital Clock Dual Ceiling Mount Enclosure (110-1675)
- Mounts on 2-gang backbox.

The Dukane 110-1674 Dual Wall Mount or 110-1675 Dual Ceiling Mount with two 24ZB20 2-inch Digital Secondary Clocks makes a single compact unit. Designed for corridors or large rooms, the clocks are equipped with 2-inch digital displays, trim plates constructed of high impact, non-conductive, flame-retardant, charcoal colored material with mounting frame finished in white.



2-Inch Digital Clock/Speaker Housing

- 2-inch Digital Clock/Speaker Baffle (DC802)
- 8-inch Speaker/Transformer
- Recessed backbox (RE1175) or surface backbox (SE1275)

The DC802 2-inch Digital Clock/Speaker Baffle is an attractive unit when mounted with a SE1275 surface mount backbox. The Clock/Speaker Baffle assembly is a white, perforated metal grille within a white metal frame with overall dimensions of 12.75" in height, 12.75" wide, and 4" deep with speaker. It can be flush mounted using the RE1175 backbox. The clock and speaker are sold separately.



4-Inch Dual Digital Clock Housing (110-3902) – Wall or Ceiling Mount

- Designed for 24ZB40 4-inch Digital Secondary Clock(s)
- Adaptable for wall or ceiling mount

The 110-3902 Dual 4-inch Digital Clock Housing is designed for corridors or large rooms requiring a front and rear digital clock display. The enclosure houses two 24ZB40 4-inch Secondary Digital Clocks and included trim plates.

The housing can be wall or ceiling mounted. For mounting to a cement or cinder block wall, the housing mounts to a standard RACO 2-gang backbox. Optionally, the housing can be flush mounted to a ceiling or suspended below the ceiling using conduit extensions.



12-Inch Dual Face Mounting Kit (24ZBDCF12R)

- For use with a 24ZB12R 12-inch secondary clock and supplemental 24ZB12RSC slave clock or two 24SC12R-SPL 12-inch clocks.

The 24ZBDCF12R can be wall or ceiling mounted. Optionally, the housing can be suspended further using conduit extensions.



Elapsed Timer Start Button (9A1900)

- Single switch operation
- Stainless steel wall plate
- Precious metal contacts
- Works with the 24CC10 Clock Controller
- Works with 24ZB20 2-inch Digital Secondary Clocks and 24ZB40 4-inch Digital Secondary Clocks.

The 9A1900 Elapsed Timer Start Button can be used with the 24CC10 Clock Controller or independently with 24ZB20 or 24ZB40 Digital Secondary Clocks. When the PRESS TO START TIMER button is pressed, it provides a momentary contact closure that automatically starts the clock controller's "Count Up Timer" function, overriding all other active clock controller functions.



AC Clock Power Supply (110-3693)

- Continuous duty operation
- Easily accessible fuses
- Screw terminal outputs
- Includes correction coil relay
- Outputs permit class 2 wiring

The AC Clock Power Supply provides a convenient 24VAC source for operating synchronous clocks and bells. The low voltage and current output of this power supply allows Class 2 wiring to be used. An on-board relay allows clock correction coils to be easily interfaced with Dukane Master Clocks. This supply mounts with the standard Dukane power supply backbox and doors.

ORDERING INFORMATION

Model	Description
Master Clock and Associated Equipment	
24ZBMC100	Master Clock, NTP/GPS time based, with ZigBee transmitter/receiver, UL Listed, AC Adapter, 650 x 400 x 200 mm / 5.0 kg
24ZBMCGPS	GPS receiver with 4.5m antenna cable
24ZBMCGPSEXT	50 meter extension cable for GPS antenna
Clock Controller and Associated Equipment	
24CC10	Clock Controller
24ZB20	2-Inch Digital Secondary Clock
24ZB40	4-Inch Digital Secondary Clock
9A1900	Digital Clock Controller Remote Start Button
110-3693	24VAC Clock Power Supply (for use with additional digital secondary clocks).
2-Inch Digital Secondary Clock, Housing and Associated Equipment	
24ZB20	2-Inch Digital Secondary Clock
110-1674	Wall Mount Dual Enclosure for 2-Inch Digital Secondary Clock
110-1675	Ceiling Mount Dual Enclosure for 2-Inch Digital Secondary Clock
8A225	Surface Mount Backbox for 2-Inch Digital Secondary Clock
RACO #693	4-gang masonry box
24ZBM2040	ZigBee Wireless Sync Module
24ZB2040 ADAPT	AC power adapter
110-3693	24VAC Clock Power Supply (for use with additional digital secondary clocks). Requires 24ZBPSCABLE-10 Central Power Cable.
4-Inch Digital Secondary Clock, Housing and Associated Equipment	
24ZB40	4-Inch Digital Secondary Clock
110-3902	4-Inch Dual Digital Clock Housing
8A425	4-Inch Surface Mount Backbox
RACO #693	4-gang masonry box
24ZBM2040	ZigBee Wireless Sync Module
24ZB2040 ADAPT	AC power adapter
110-3693	24VAC Clock Power Supply (for use with additional digital secondary clocks). Requires 24ZBPSCABLE-10 Central Power Cable.
12-Inch Analog Secondary Clock - Plastic	
24ZBP12R	12-Inch Analog Secondary Clock - Plastic
24ZBDCELL-2	2 alkaline D cell batteries
110-3693	24VAC Clock Power Supply (for use with additional digital secondary clocks). Requires 24ZBPSCABLE-10 Central Power Cable.
24ZB12VDC2A-10	Optional AC adapter; package of 10 adapters
24ZBWG1215R	Analog Clock Wire Guard

Model	Description
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12-Inch Analog Secondary Clock - Metal, Housing and Associated Equipment

24ZB12R	12-Inch Analog Secondary Clock - Metal
24ZBDCF12R	12-Inch Dual Face Mounting Kit
24ZB12RSC	Supplemental Clock for Dual Face Kit – 12 hour face
110-3693	24VAC Clock Power Supply (for use with additional digital secondary clocks). Requires 24ZBPSCABLE-10 Central Power Cable.
24ZB12VDC2A-10	Optional AC adapter; package of 10 adapters
24ZBWG1215R	Analog Clock Wire Guard

12-Inch Analog Secondary Clock, Housing and Associated Equipment

24SC12R-SPL	12-Inch Analog Secondary Clock
	Dukane CH1000(LT), Dukane StarCall, Dukane StarCall Master Program Clock or Dukane MCS350 system
110-3900	2-Gang Analog Clock Hanger Plate (required if 110-3950 is not used)
110-3950	120VAC Adapter Kit
110-3693	24VAC Clock Power Supply
145-184-SC	Backbox, surface or flush mount (holds three Model 110-3693 Power Supplies)
110-2190-SC	Flush Mount Door for model 145-184 backbox
110-2191-SC	Surface Mount Door for model 145-184 backbox
24ZBDCF12R	12-Inch Dual Face Mounting Kit
24ZBWG1215R	Analog Clock Wire Guard

AC Clock Power Supply and Associated Equipment

110-3693	AC Clock Power Supply (1, 2, or 3 employed)
145-184-SC	Backbox (up to three power supplies can be mounted in a single backbox)
110-2190-SC	Flush Mount Door
110-2191-SC	Surface Mount Door
24ZBPSCABLE-10	Central Power Cable for 24ZBP12R, 24ZB12R, 24ZB20, and 24ZB40; Package of 10 cables

Digital Clock Sync Module and Associated Equipment

CLKDUK	Digital Clock Sync Module
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