

NATIONAL TIME has leveraged its century of experience and history of technological advancements to set the industry's new benchmark for WiFi clocks. The Spectrum clock's lowest power consumption, easy setup tools and monitoring capabilities will change the perception of battery powered WiFi clocks.

WiFi Network Connection. Rather than creating a radio frequency spectrum competing RF system of transmitters and repeaters with unpredictable results, WiFi based clocks leverage your initial or previous investment in your building's existing network infrastructure. This WiFi based system allows technicians and support staff to use familiar diagnostic tools, equipment and training that proprietary RF systems don't offer. National's battery clocks connect to 802.11b/g/n WiFi using WPA, WPA2, and open networks. They support DHCP to ease setup effort and utilize SNTP services for time accuracy.

Monitoring Capabilities. Unlike most RF battery systems and competing WiFi clocks, National's WiFi connection provides two-way communication. Not only can the connection status to the time service be monitored, so can the WiFi signal level, time synchronization check-in history, battery voltage and other settings. National's exclusive TIMEWISE™ Cloud Service provides these statistics to any PC or hand-held device with an internet connection. Take control and be proactive with your time system rather than wait for complaints from occupants that the clock is off time.

Easy Setup. National Time has developed the WiFi Wizard setup interface. Using only a web browser on any WiFi enabled device, the user is led step-by-step through the fast setup process. Alternately, there are also android and iOS apps available. These apps will scan for nearby clocks, automatically download required settings, and verify connection to the selected SNTP time server.

Low Power Consumption. National Time's battery WiFi clock is designed to use standard AA size batteries. When using Energizer™ Ultimate Lithium AA batteries the life expectancy is 2.5 years. The movement can also operate using standard Alkaline batteries such as Duracell™ Quantum with a life expectancy of 2 years. The movement is also offered in a four battery version (-4B) which doubles the life expectancy to 5 years.

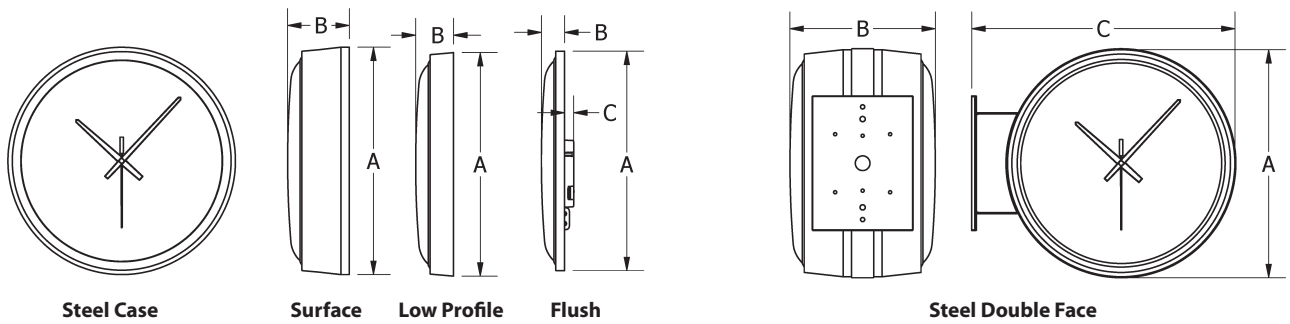
Each clock is equipped with an all metal case and white polystyrene dial having black markings and hands. Cases are attractively finished in Powder Gray enamel. Other finishes and glass or shatterproof lens are available upon request. A plastic case with glass lens is available for the 12" round clock refer to Bulletin C-580. Wired versions are also available refer to Bulletin C-579.



Benefits:

- Easily synchronize with NIST or other SNTP servers
- Supports 802.11b/g/n WiFi networks
- Battery power provides location versatility
- 2.5 year and 5 year battery life expectancy models
- Easy WiFi Wizard setup or RappID™ smart phone apps
- TIMEWISE™ Cloud monitors connection and vitals
- Long, wide hands offer increased visibility
- Made in USA
- FCC Compliant

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Duracell™ is a registered trademark of DURACELL COMPANY LIMITED



Dial Size	A	B	C
10" Round Steel-Surface	11.65"	3.25"	-
10" Round Steel-Flush	11.13"	1.38"	0.55"
12" Round Steel-Surface	13.50"	3.25"	-
12" Round Steel-Low Profile	13.38"	2.13"	-
12" Round Steel-Flush	13.00"	1.38"	0.55"
12" Square Steel-Surface	12.50"	2.75"	-
16" Round Steel-Surface	16.98"	4.75"	-
16" Round Steel-Flush	16.50"	1.38"	0.55"

Dial Size	A	B	C
10" Round Steel-Double Face	11.65"	8.63"	14.00"
12" Round Steel-Double Face	13.50"	8.63"	16.00"
16" Round Steel-Double Face	16.98"	8.63"	19.00"
12" Square Steel-Double Face	12.50"	8.63"	14.50"

Optional Accessories:

Part No. Description
 12WGS Wire Guard for 10" and 12" Round Clocks
 15WGS Wire Guard for 12" sq and 16" Round Clocks
 See Bulletin C-328 for Clock Speaker Assemblies

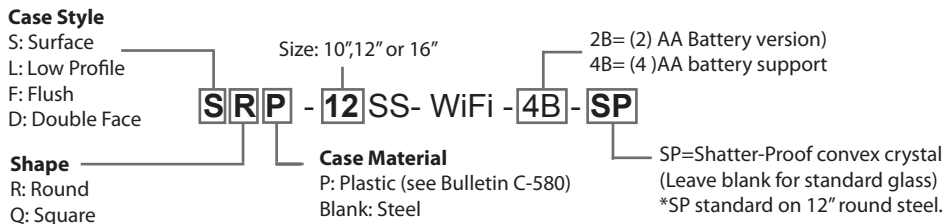
Specifications:

Network: 802.11b/g/n; DHCP; SNTP; WPA; WPA2; Open

Battery Life Expectancy: 2 years Duracell Quantum Alkaline; 2.5 years Energizer Ultimate Lithium.

Battery Life Expectancy (4 Cell AA): 4 years Duracell Quantum Alkaline; 5 years Energizer Ultimate Lithium.

Ordering Information



Popular Part number examples:

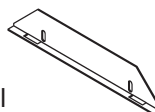
Model Number	Description
LR-12SS-WIFI-2B-SP	Steel Low Profile Round 12" Battery Powered WiFi Clock, Shatter-Proof Crystal
DR-12SS-WIFI-2B-SP	Steel Double Face Round 12" Battery Powered WiFi Clock, Shatter-Proof Crystal
SR-16SS-WIFI-2B	Steel Surface Round 16" Battery Powered WiFi Clock, Glass Crystal

Hanger Brackets: (Refer to Bulletin C-577 for clock mounting options.)

Surface and Low Profile Steel Cases include the top-mount tamper resistant bracket to mount to most surfaces. Can also mount over a duplex outlet for wall transformer versions.



Flush Steel Cases include the double tang bracket to mount to a National Time 143 Wall Box.



Single tang adapter brackets are available for 12" Flush (FR-12ADAPT-ST) and 12" Low Profile (LR-12ADAPT-ST) for mounting to existing back-boxes by Simplex, Edwards, Lathem etc.

