

INSTALLATION MANUAL FOR SAL SERIES WIRELESS CLOCKS



SPECIFICATIONS

Time base: Quartz
Power input: Battery (2 "D" cell) : Part # SAL-1BS-12R-0
95 – 135 VAC / 60 Hz: Part # SAL-1BS-12R-1
7 – 28 VAC / 60 Hz: Part # SAL-1BS-12R-4
Current consumption:
Battery– 5 year, 2 "D" cell**
20 mA @ 24 VAC
15 mA @110 VAC
Power Output 8dbm
Display: 12 hour format. Hour, minute
and second hands
Color: Standard Black
Clock Size: 12" diameter, 2.2" depth, 16" diameter, 2.2" depth
Shipping
Weight: 12" - Approx. 2.5lb.
16" - Approx - 4.0 lb.
Case: Smooth surface ABS case
Crystal: Shatter-proof, side molded polycarbonate crystal in 12"
and 16" models
FCC Compliant. FCC part 15 Section 15,248

** *Provided good reception*

TABLE OF CONTENTS

TABLE OF CONTENTS

FCC COMPLIANCE

DescriptionPage 3

MOUNTING INSTRUCTIONS

structions for All Models..... Pages

OVERVIEW

..... Pages

OPERATIONAL INSTRUCTIONS

..... Pages

FREQUENTLY ASKED QUESTIONS (FAQ'S)

..... Pages

The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

"Instructions concerning human exposure to radio frequency electromagnetic fields.

To comply with FCC Section 1.307 (b)(1) for human exposure to radio frequency electromagnetic fields, implement the following instruction:

A distance of at least 20cm. between the equipment and all persons should be maintained during the operation of the equipment."

The SAL Series clocks is a wireless analog clock is available in battery operated, 110V or 24V power input. The SAL Wireless clocks are also available in 12" and 16" versions, as well as single and double mount styles. It is designed to work with the STR Series Transmitter/Master Clock. The wireless system is interchangeable with Sapling's SBL Series digital clock. The 110V and 24V wireless analog series receives and transmits time every minute, as opposed to the battery-operated version which receives and transmits time every four (4) hours.

Sapling's revolutionary SAL Series wireless clock has been designed to work in environments when cabling options are not available. The SAL clock Series works in 915-928 MHz frequency-hopping technology. The innovative 915-928 MHz frequency-hopping technology transmits data along several alternating signal frequencies. This multi-layer approach guarantees an enhanced signal even if there is interference in one of the frequencies. The unit can both receive and transmit wireless signals which allows it to be used as a repeater, boosting the data stream and sending it along the system. There is no limitation to the number of clocks in the installation. The SAL Series clocks are designed to work together, without causing any interference with each other in an automatic fashion. The more clocks in a specific area would increase the quality of the signal.

The SAL Series clock is designed to work in conjunction STR Series Transmitter that is capable of working as a master clock for a new system, it can act as a signal booster to extend the range of a wireless system, or it can be used to translate an existing system into a wireless system. Sapling's high power wireless Transmitter allows the user to create a wireless clock system from an existing hard-wired system. The transmitter incorporates multifunction software so that every transmitter can transmit and receive signals.

Distances of the SAL Series Analog Clock is 656 feet (200 meters) in open space which allows for a typical 164 feet (50 meters) within a building (typical distances

Distances of the STR Series Transmitter Analog Clock is 3280 feet (1000 meters) in open space which allows for a typical 492 feet (150 meters) within a building (typical distances will vary depending on the type of the building, wall construction, number of walls and etc.)