



An FKI Industries Company
700 West Bridge Street
Owatonna, MN 55060
1-800-324-4487
www.truth.com
Form 90059 R1

Sentry II®

Hand Held Remote Operating Instructions

Danger: To help prevent severe personal injury or death:

- Read and understand instructions completely before beginning installation.
- When connecting the Sentry 2 system to accessories, read the installation instructions supplied with each accessory before beginning installation.
- Save ALL instructions.
- Installer – please be sure to give ALL instructions to the homeowner once installation is complete.
- Wiring must be installed by a qualified electrician according to local and National Electrical Codes (N.E.C.)
- Disconnect main power before beginning installation! Verify that power is OFF at the main breaker or fuse panel by testing with a voltage meter that you know is working correctly.
- Connect power only after motor connections and settings are verified.
- This equipment does not provide a method to shut off power, and should be connected to a dedicated breaker or fused power circuit.
- The Sentry 2 system should not be used on windows that are intended to meet egress codes.
- The Sentry 2 system is intended for indoor use only, with screens in place.
- The screen interlock MUST be correctly mounted and is a required part of the installation. It is intended to help prevent injury that could result from reaching into the window or skylight area during operation. The correct installation of the screen interlock is the responsibility of the installer.
- Do not allow children to operate the wall push buttons or remote control transmitter(s).

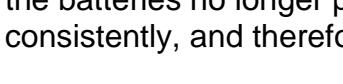
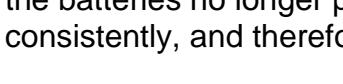
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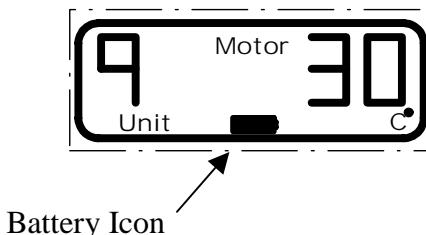


Made in USA



Important Information

- This remote control is an RF (radio frequency) device and therefore does not need to be pointed in any manner toward the intended window/skylight to be operated. The effective range for this remote is approximately 100ft, but this varies with application conditions such as: wall materials, mounting height of receiver and interference from other devices radiating on RF frequencies.
- Devices which could be affected or cause interference can include the following: radio baby monitors, garage door openers and automotive keyless entry / security systems.
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- Batteries: This remote control uses 3 size "AAA" batteries (not included), Inserted with the proper polarities (+ and -) aligned correctly. The use of alkaline batteries is recommended for best service life. Do not mix alkaline and manganese battery types, nor use old and new batteries together.
- A battery icon “  ” will become visible on the LCD when the batteries are down to 20% of usable life. When the battery icon “  ” begins to flash the batteries no longer provide enough power to operate the remote consistently, and therefore should be replaced.



Regulatory Compliance

United States of America

Federal Communications Commission (FCC)

Unintentional emitter per FCC Part 15

Note: 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:

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

Warning: Changes or modifications not expressly approved by Truth Hardware could void the FCC compliance and negate your authority to operate the product.

FCC Declaration of Conformity

According to 47 CFR, Parts 15.107 and 15.109 Class B

Responsible party: Truth Hardware, 700 West Bridge St., Owatonna, MN 55060
www.truth.com or 1-800-324-4487

Product: Sentry 2 Hand Held Remote (43.53)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interferences that may cause undesired operation.

Canada

Industry Canada (IC)

Unintentional emitter per ICES-003

This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Europe

European Community EMC Directive (CE)

Compliance with these directives implies conformity to the following European Norms or Regulations:

Emissions

ETSI EN 300-220-3 v1.1.1 (2000-09)
ETSI EN 301 489-3 v1.4.1 (2000-04)

Immunity

ETSI EN 301 489-3 v1.4.1 (2000-04)

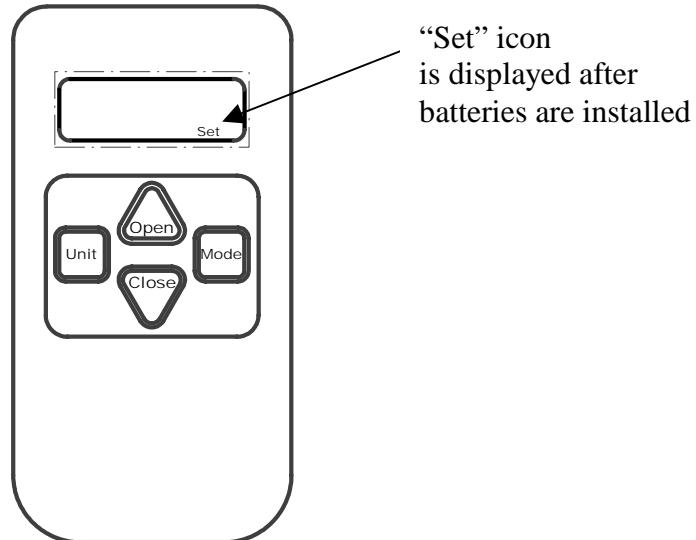
Programming the Remote Control

If optional Hand Held Remote was purchased, it can now be programmed using the “Learn” button (see S1 on wire diagram)

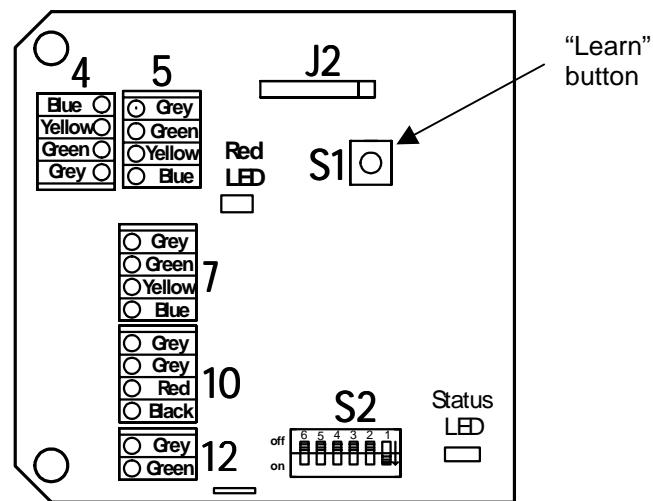
Program the remote using the following steps:

Place three “AAA” batteries into the Remote.

The display on the Remote will be blank except for the word “SET”

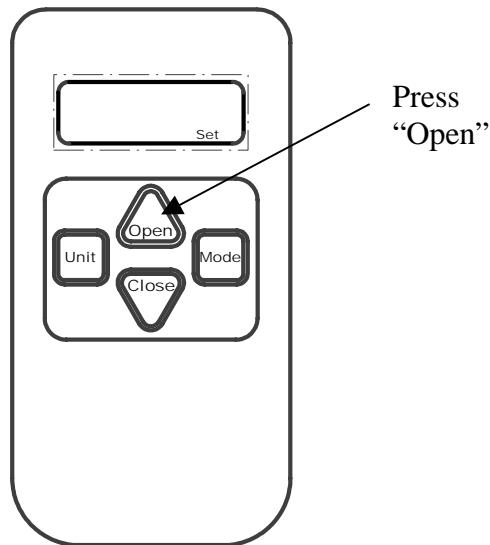


Press the “Learn” button (S1) on the control board once

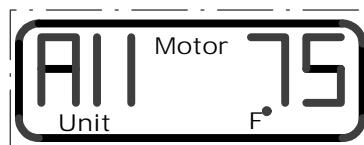


A red LED will flash... and the status LED (on control board or wall plate) will begin to flash green.

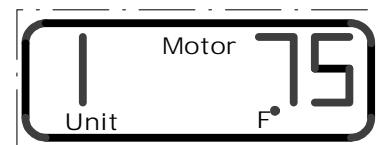
Press the “Open” button on the remote once.



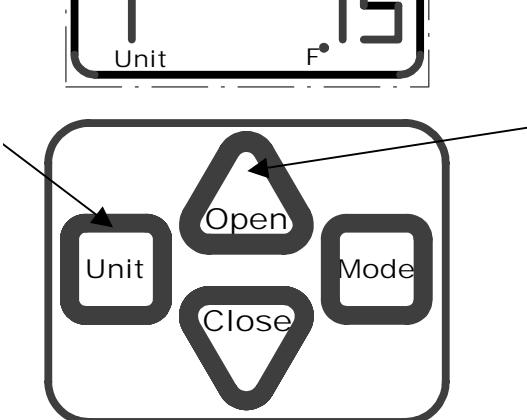
The display on the remote should change to show both the unit as “All” and the ambient temperature.



By pressing the “Unit” button on the remote, select the desired Unit Code which will represent this window/skylight. Choose from 1 thru 9. (Note: Any number of motors can be programmed onto a single Unit Code.)



Press “Unit” button to choose unit code (1 – 9)



Once unit code number is selected,
Press “Open” once again.

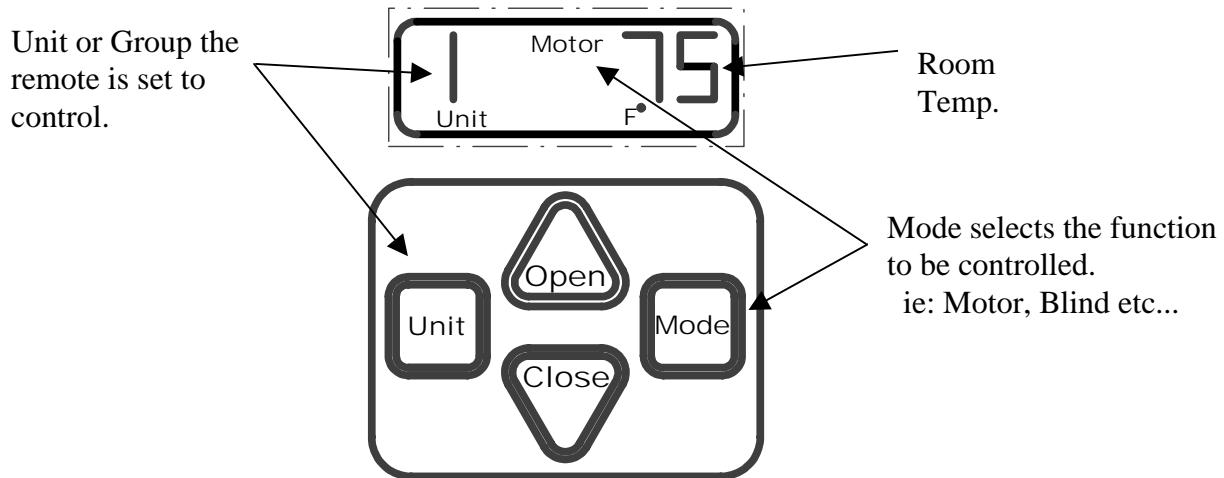
Press the “Open” button on the remote once again. The Red Led flashes once and the green flashing Status LED will go out. Programming is now complete.

Options for programming multiple units:

There are a number of different programming possibilities provided by the “Unit” code function of the Sentry 2 remote. Here are a few:

1. Grouped Units on Single Unit Code: By pressing the “Learn” button on a number of selected control panels you can simultaneously program more than one window or skylight to a single unit code. This can provide control of a group of windows and/or skylights of any number as long as they are within range of the remote control (approx. 100ft)
2. Banked Units on single Unit Code: By using the method above you can also group windows on the same side of the room or “bank” allowing you to take advantage of prevailing wind conditions to make your home more comfortable. To further improve cross ventilation in a room grouping windows on opposing walls.
3. Chimney Ventilation: By combining a skylight unit and a window unit (preferably on the shady or cooler side of the house) a natural convection draft known as “chimney effect”. This helps to cool the room by allowing the hot air to escape out through the skylight and be replaced by the cooler air coming in through the window.
4. The “All” setting for the Unit Code can also be used to provide the above conditions.

Normal Operation:



To "Open" a selected window/skylight.

- 1) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Or select "All" which will then control all units programmed regardless of unit number.
- 2) Using the "Mode" key select the "Motor" function.
- 3) Press the "Open" key to open the window/skylight unit.
Note: Skylight motors will open to 90% of full range with one key press. Window motors will open to 75% of full range on the first key press, and then open a few more degrees with each key press until full open position is reached.
- 4) Pressing the "Close" key while the selected unit is opening will cause the unit to STOP.

To "Close" a selected window/skylight.

- 1) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Or select "All" which will then control all units programmed regardless of unit number.
- 2) Using the "Mode" key select the "Motor" function.
- 3) Press the "Close" key to close the window/skylight unit.
- 4) Pressing the "Open" key while the selected unit is closing will cause the unit to STOP.

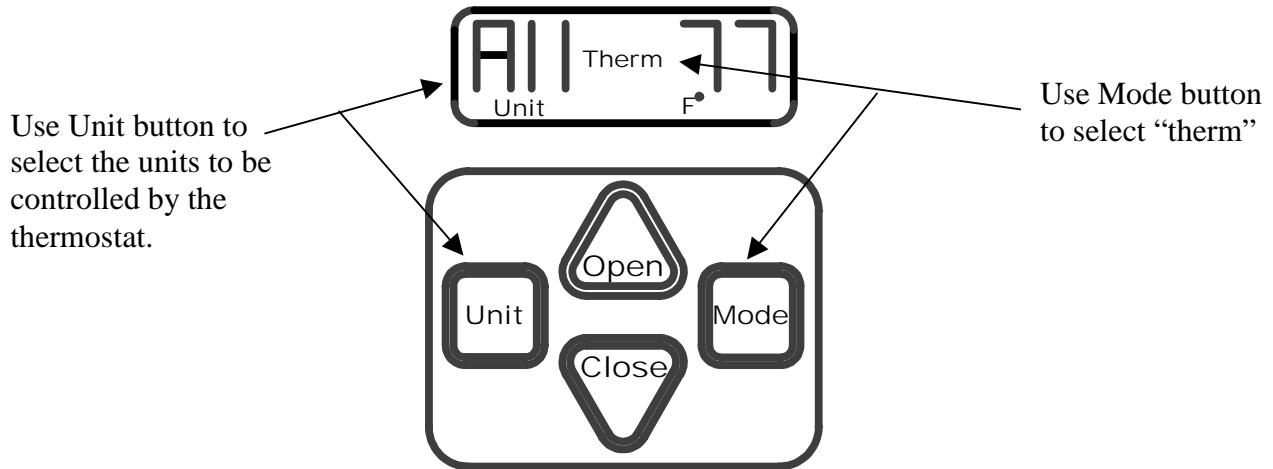
To "Open" a selected window/skylight blind:

- 1) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Or select "All" which will then control all units programmed regardless of unit number.
- 2) Using the "Mode" key select the "Blind" function.
- 3) Press the "Open" key to open the blinds.
- 4) Pressing the "Close" key while the selected unit is opening will cause the unit to STOP.

To "Close" a selected window/skylight blind:

- 1) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Or select "All" which will then control all units programmed regardless of unit number.
- 2) Using the "Mode" key select the "Blind" function.
- 3) Press the "Close" key to close the blinds.
- 4) Pressing the "Open" key while the selected unit is closing will cause the unit to STOP.

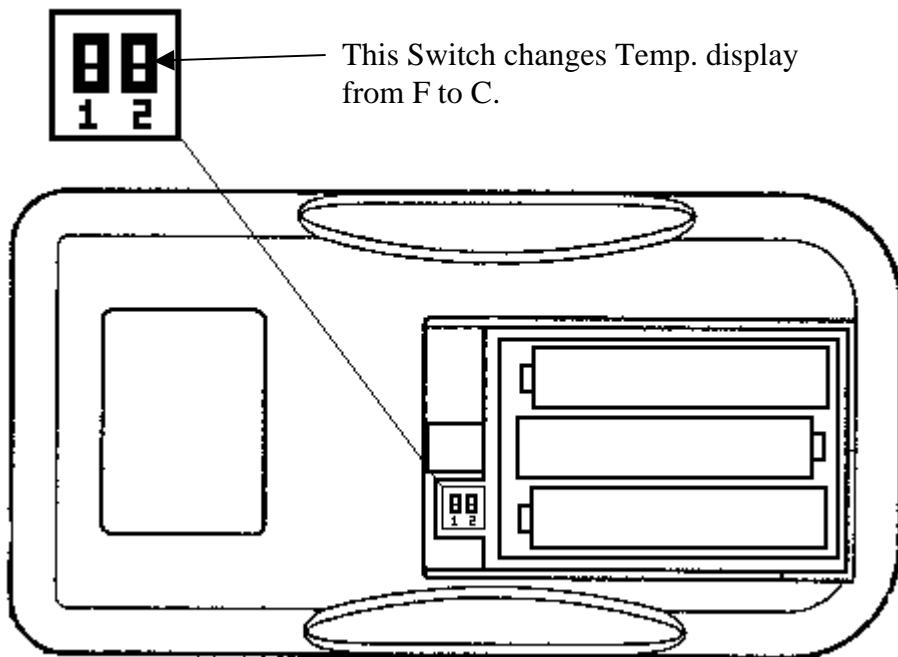
Thermostat Operation:



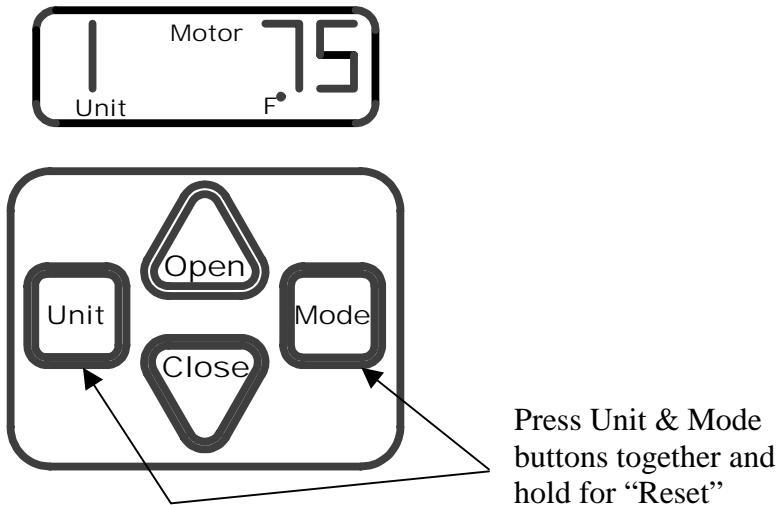
To control a selected window/skylight via the internal thermostat in the hand held remote.

- 1) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Or select "All" which will then control all units programmed regardless of unit number.
- 2) Using the "Mode" key select the "Therm" or thermostat function.
- 3) Using the "Open" and "Close" keys adjust the Set Point of the thermostat. When "Set" icon is visible the display shows the current set point. When the "Set" icon disappears the ambient room temperature is again displayed.
- 4) By leaving the remote in the "Therm" Mode the motors sharing the displayed Unit Code will react to changes in room temperature. When the room temperature is above the Set Point the units will automatically open, and when the temperature drops below the Set Point by 5° F (2°C) the units will automatically close. Note: The remote must be located within range of the intended motor control units for reliable operation.
- 5) When thermostat control is no longer desired, changing the "Mode" to either the "Motor" or "Blind" settings will deactivate the automatic thermostat operation. The Set Point will be retained for future use.

Note: The temperature display can provide either Fahrenheit (F) or Celsius (C) by changing the position of switch 2 found behind the battery door. Remove the batteries before changing position of switch 2.



Forced Re-initialization:



When an error is noted in the operation of the motor unit (indicated by a Flashing RED light on the wall plate or status indicator), the unit can be "Reset" by forcing a re-initialization via the remote control.

- 1) Shut off the power* to the unit for 20 seconds. Upon reapplication of power the unit should automatically close and stop.
- 2) Verify motor operation at this point, since cycling the power may correct some problems.
- 3) Using the "Unit" key select the number which you programmed into the control unit for the selected window or skylight. Note: A Reset cannot be activated in the "All" Unit setting.
- 4) Using the "Mode" key select the "Motor" function.
- 5) Press both the "Unit" and "Mode" keys down simultaneously and hold them until the "Motor" icon on the display blinks twice. Watch to be sure the Unit Code does not change during the button press. If it does you will have to return to step 3.
- 6) The selected unit should begin to run through a full open and closed cycle during which a Red light should be seen at the wall switch plate or status indicator. Watch the unit for obstructions or other problems during this procedure. Take action to correct hardware or window/skylight related problems as necessary.
- 6) Repeat this procedure from step 3) until the problem is resolved.

*Power interruption is most easily accomplished by shutting off the specific breaker at the homes fuse or power distribution panel.