

Sonneboy Sun and Wind Control

Adjustable settings: (factory setting)

Light intensity to extend awning or lower shades (5)
 Light intensity to retract awning or raise shades (4)
 Temperature before shades are lowered by light intensity (--)
 Wind speed to retract awning or raise shades (3)
 Output duration (3:00)
 Time delay before reacting to high light intensity (5)
 Time delay before reacting to low light intensity (10)
 Intermediate stop (none)



Light Intensity

When the light intensity reaches the “extend” setting, a time delay is started to insure that this is a continuing condition not just a temporary reading. Upon completion of the time delay, the “extend” (down) output is energized to extend the awning. When the light intensity drops to the “retract” setting, a time delay is started to insure that this is a continuing condition not just a temporary reading. After the time delay, the “retract” (up) output is energized to retract the awning.

The light intensities to extend and retract the awning are individually adjustable. The time delays to confirm a reading before extending or retracting are also individually adjustable. The factory settings are “5” to extend the awning and “4” to retract the awning. These settings are approximately equivalent to 15 and 18 kilolux. The settings are adjustable from “1” to “14” or from approximately 4 kilolux to 50 kilolux. The factory setting for the time delay to extend is 5 minutes and before retracting is 10 minutes. These times are adjustable from 5 minutes to 30 minutes. The duration of the output to run the motor is adjustable from 30 seconds to 3 minutes. The factory setting is 3 minutes.

Wind Speed

The wind sensor monitors the wind speed and will retract the awning without delay when the set level is detected. The factory setting is “3” or approximately 13 miles per hour. This setting is adjustable from “1” to “9” or approximately 4 to 39 miles per hour.

Temperature

The temperature setting is used in a winter garden room application where you want to reach a certain temperature level before you use the light sensor to close the shades. It is adjustable from approximately 63 to 86 degrees Fahrenheit. The factory setting is “--” which is the “off” condition.

Changing Settings

To change the settings the unit must be in the set mode. A small dot will appear in the lower left corner of the display. To change in and out of the set mode, the cover plate must be removed and the button marked “set” pressed. The unit can be left in the set mode allowing you to make changes without removing the cover, or it can be taken out of the set mode to prevent accidental changes.

Changing light and wind settings

Press the “Prog” button twice to display a dot above “thresholds”.

Press “Enter” and the light intensity setting for extending the awning will be displayed and blinking. A sun symbol and down arrow are displayed on the right and the two digits on the left display the current reading. The setting can be changed by using the up and down buttons. Press “enter” to accept the desired value.

You will now have the retract setting displayed. A sun symbol and up arrow are displayed on the right and the two digits on the left display the current reading. The setting can be changed by using the up and down buttons. Press “enter” to accept the desired value.

You will now have the temperature setting displayed. For most installations this should be “--”. The setting can be changed by using the up and down buttons. Press “enter” to accept the desired value.

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The wind setting is now displayed and blinking. A wind monitor symbol is displayed on the right and the two digits on the left display the current reading. The setting can be changed by using the up and down buttons. Press "enter" to accept the desired value.

You will now be returned to the operating mode.

Changing time delay settings

Press the "Prog" button three times to display a dot above "times".

Press "Enter" and the output duration time will be displayed. Both up and down symbols will be displayed on the right. It can be changed by using the up and down buttons. Press "enter" to accept the desired value.

The "extend" time delay will now be displayed with a sun symbol and down arrow displayed on the right. It can be changed by using the up and down buttons. Press "enter" to accept the desired value.

The "retract" time delay will now be displayed with a sun symbol and up arrow displayed on the right. It can be changed by using the up and down buttons. Press "enter" to accept the desired value.

You will now be returned to the operating mode.

Setting an intermediate stop

The Sonneboy can be programmed to stop at intermediate position when the first down command is received and another down command is required to extend to the full position. This can be useful if you normally want to extend the awning only partially such as to shade the windows, but want the ability to extend it fully at times.

The awning must be in the fully retracted position and the output cycle completed. This will be indicated by a dot in the upper right corner of the display next to the "FTP" label. The Sonneboy must be in the Hand Mode.

Press both the up and down buttons and hold them for 3 seconds. Press the down button and hold it while the awning extends to the desired position. Continue holding the down button and press the up button. Release both buttons. The position is now set.

To erase the intermediate position setting start with the awning fully retracted and the FTP dot displayed. Press both the up and down buttons and hold them for 3 seconds. The setting is now erased.

External Switch Input

The Sonneboy can now be operated by an external switch connected to the low voltage terminal block on the back of the base. This is useful when it is desirable to have more than one switch or when connection to an automation system is required. The switch should be a 3-position momentary contact type. Terminal number 4 is connected to the common terminal of the switch or relay and terminals 5 and 6 are used for the up and down signals. The switch can be used when the unit is in the "Hand" mode.