

Soneva Awning Controllers

Remote Control with Automatic Sun & Wind Function

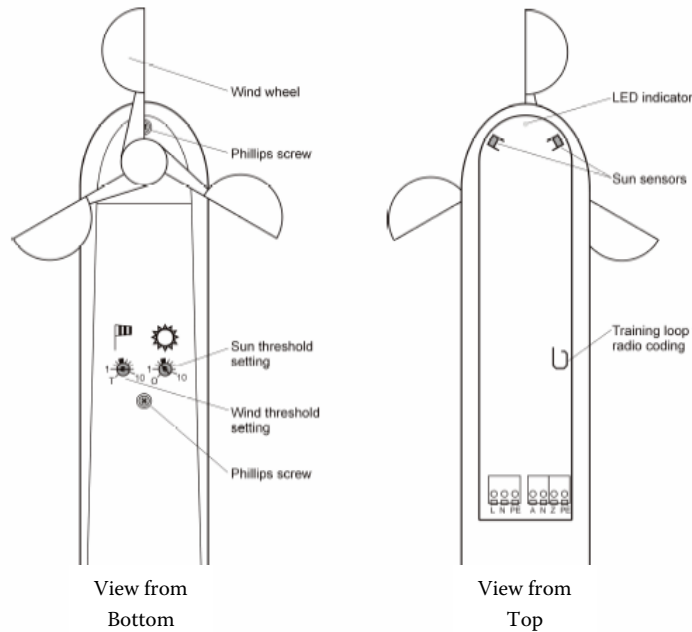
Installation & Operating Instructions

Customer Service Helpline : 01509 262900

(8am – 4pm Monday – Friday except Public Holidays)



INTRODUCTION



Thank you for purchasing a Soneva Remote Controlled Awning or Remote System. The Soneva Remote Controlled system is a highly advanced unit of superior reliability produced in Germany to exceed all European safety and usage regulations.

The Soneva Wind and Sun Sensor System will provide your awning with automatic protection against windy conditions and depending on your desired settings will also operate your awning automatically after sunrise (subject to a minimum level of light) and wind it in approximately 20 minutes after sunset. The system can be programmed to allow automatic daylight operation or to be operated only manually with the remote control.

SAFETY INSTRUCTIONS

The Soneva Controller must only be used for its intended use as an awning controller to be used with a Soneva Awning. Changes or modifications to the system will void any rights to claims under the guarantee.

After unpacking your controller, please check it carefully for any damage. **DO NOT** operate the controller if it appears to be damaged in any way. Call the Soneva Helpline if any damage is found.

The fitter / user of this system is responsible to ensure compliance with EVU or VDE regulations as well as to ensure the product has been properly installed.

It is critical to ensure that no water is allowed into the control box where the electrical instruments are fitted. Be careful to ensure the control box is fitted the correct way up (with the wind sensor balls on the underside and the clear plastic cover on the top side).

Check all electrical fittings to ensure they are properly connected before plugging into the mains. If you have bought this kit as an upgrade from a standard awning, please ensure that you have wired the unit up properly in accordance with the wiring diagrams shown in this instruction booklet.

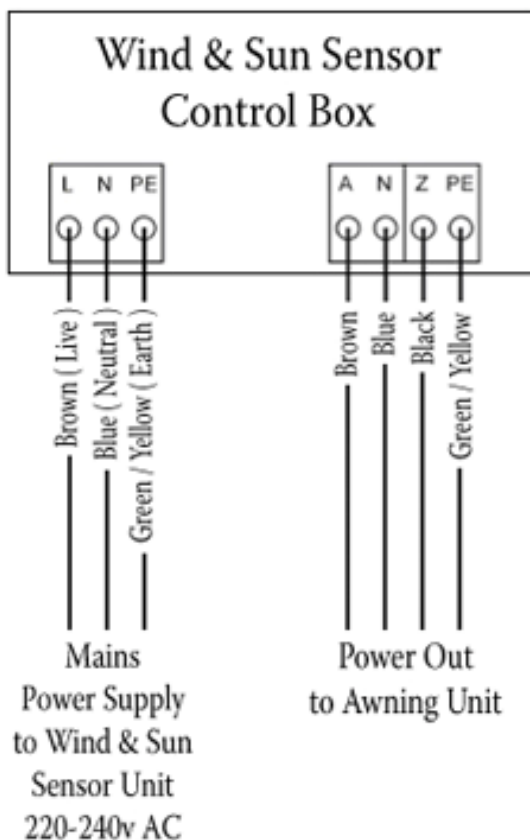
INSTALLATION

The Wind and Sun Sensor is suitable for mounting on building and roof facings. Find a suitable location which meets the following criteria :

- Similar Wind Conditions as those of the awning itself
 - Similar Light Conditions as those prevailing around the top surfaces of the awning
 - In a suitable position to allow the power cable to reach a power socket
- (1) Mount your awning onto the wall in accordance with the awning fitting instructions supplied with your Soneva Awning
 - (2) Fit the Wind and Sun Sensor unit in a suitable position so that the cable and plug fitted to the awning is in easy reach of the control box cables. Use a 4mm Allen Key to tighten up the bracket in its final position.
 - (3) Connect the power cable plug that is supplied with your awning to the power cable plug fitted to the Wind and Sun Sensor unit (this is the long cable with the round 3 pin connector on one end and the British Mains plug on the other). The mains cable is supplied in your awning box.
 - (4) Connect the power cable plug (fitted with a round 4 pin plug) that is fitted to the awning unit to the other 4 pin round plug fitted to the Wind and Sun Sensor unit.

If your Wind and Sun Sensor Kit is an upgrade from a standard motor awning then you will need to remove the cables already fitted to your Wind and Sun Sensor unit and directly wire in the power cable and the cable fitted to the awning unit. Ensure there is no power supply to the power cables or the Wind and Sun Sensor Unit prior to making the wire connections.

Follow the connection diagram below and ensure all wires are connected in accordance with the diagram. Incorrect connections will cause damage to the unit and may be dangerous. If in doubt, consult a qualified electrician.



The wind and sun sensor control box is prefitted with wires and round type plugs to connect to the cables supplied with all new awnings.

These cables will need to be removed from the control box if you are upgrading your awning from the old type remote control system.

IMPORTANT

ENSURE THE CABLES ARE FITTED THROUGH THE RUBBER GROMMETS TO MAINTAIN A WATER RESISTANT ENVIRONMENT INSIDE THE CONTROL BOX.

USE CABLE TIES (SAME AS USED ON THE PREFITTED WIRES) TO PREVENT YOUR NEWLY FITTED WIRES FROM BEING PULLED OUT OF THE CONTROL UNIT (IN CASE THE POWER CABLE IS TUGGED BY A CHILD).

OPERATION

Once the awning is fitted on the wall and the sun and wind sensor is fully wall mounted and correctly wired up, plug in your mains power cable. If plugging into an outdoor socket, please ensure the power plug is suitably protected against dampness and water. We recommend wherever possible to drill a hole through your wall and to pass the power cable into your home for plugging into an indoor power socket.

Insert the batteries into your hand held remote control unit (supplied with the unit) if not already pre-fitted.

FUNCTIONS

The Soneva remote control system can be set up in 2 ways :

- (1) **Automatic.** The awning will open and close according to the conditions detected by the sun and wind sensors.. The sun sensor can be turned off, but the wind sensor will always be activated.

The controllers integrated wind monitor function measures the current wind speed within a range of 10 to 50 km/h and compares this value with the threshold set by the potentiometer. If the threshold is exceeded for 3 seconds, the awning will be activated in the close position. The red LED signals this state. After the awning has fully wound in, it will remain fully wound in for a period of approximately 20 minutes. This state is shown by a blinking red LED. It is not possible to open the awning even manually if the awning is in this state.

The controllers integrated sun sensor function measures current light strength within a range of 10 to 60 klx and compares this value to the threshold set by the potentiometer. If this threshold is continuously exceeded for 5 minutes, the awning will open up. Continuous under run of this threshold by 20% for a period of 20 minutes will cause the awning to close (i.e. at dusk and at night).

Turning the automatic sun sensor control off or on will be indicated by a small amount of awning travel in the in and out direction. These settings are not affected by power outages.

NOTE : the Manual mode operation of the controller has precedence over the Sun Automatic operation..

Any manual command which causes awning motion will interrupt an active automatic operation originated by the sun sensors. Automatic operation will be reinstated by the following events :

- "Sun On" commands from the special handheld transmitter have the highest priority except for wind sensors commands.
- An automatic mode operation interrupted by a manual command is reactivated when the awning is completely closed.
- An automatic mode operation interrupted by a manual command will be reactivated by an integrated timer function. The awning will return to automatic mode 4 hours after the last manual command has been issued.
- When the sun threshold limit is under run, the awning will close no later than 20 minutes after the automatic mode has been reinstated. This ensures that the awning will not be left unintentionally open overnight.

- (2) **Manual Method.** By pressing the control buttons on the hand held remote control to make the awning open and close. By pressing the Up button, the awning will close and the Out button to make the awning open. The Sun Automat ON button makes the awning open and close automatically according to the amount of daylight and by pressing the Sun Automat OFF button will cancel the automatic sun sensor system.

A brief activation of the Out button (<1,5 seconds) will cause the awning to be opened out to its trained intermediate stop position and then stop there. In normal circumstances this is preset at the factory to its maximum opening limit. A longer activation of the Out button (>2 seconds) will cause the awning to open to its maximum extension.

When the awning is in its intermediate stop position, any activation of the Out button will cause the awning to open to its maximum extension. When the awning is in its intermediate stop position and activation of the Up button will cause the awning to completely close.

Any brief activation for the opposite direction will cause the awning to stop.

TRAINING AN INTERMEDIATE STOP POSITION.

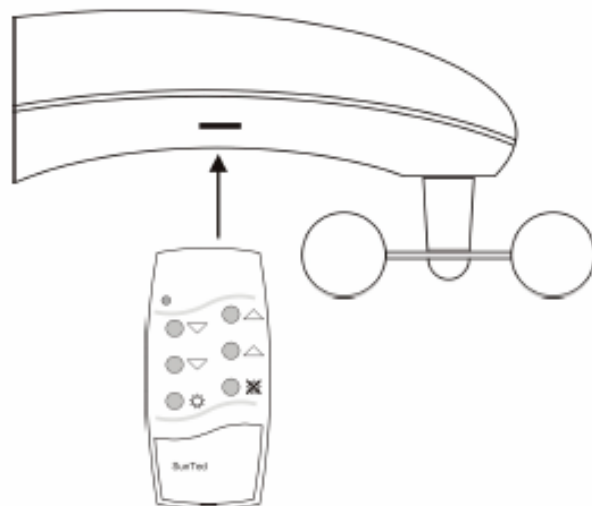
Before training the intermediate stop position, the awning must be fully wound in and left in that position for 2 minutes.

- Start the awning in the open direction with the appropriate remote control button.
- When the awning has reached the desired intermediate stop position, activate the “In” button continuously for about 5 seconds. After the 5 seconds have expired the trained intermediate stop position will be stored in manner that is impervious to power outages. As a confirmation that the stop position has been trained, the awning will make short movements in both directions. .

CHANGING THE RADIO CODE

To change the radio code (if for example your neighbor has an identical awning with the same radio code or you have bought a replacement hand held remote control unit) proceed as follows :

Hold the hand held remote control perpendicular to the barcode mark on the side of the wind and sun sensor unit. Activate the up button for about 2 seconds. Successful training will be confirmed with short movements of the awning in both directions. The new sensor code will be generated automatically and saved in a manner that is impervious to power outages. Note that a new transmitter code cannot be set when the system is in test mode.



ALTERABLE AUTOMATIC CONTROL FUNCTIONS

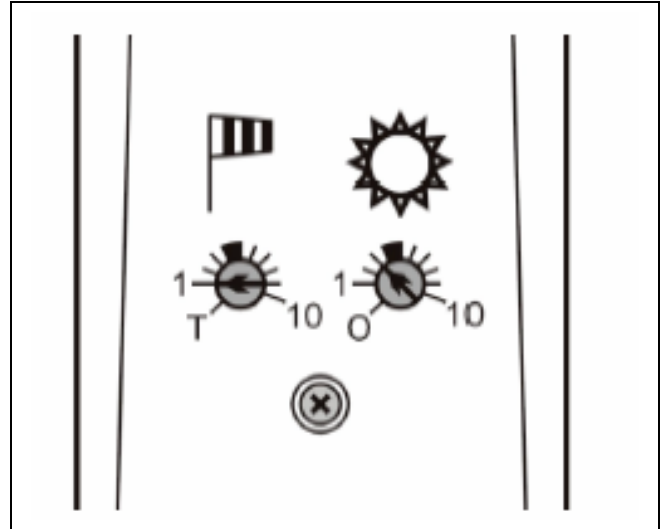
Sun Sensors

The Control Box unit possesses two sun sensors . The sun monitoring function measures light strength in a range of about 10 to 60 klx. The brightness threshold can be adjusted with the "Sun" potentiometer. The scale divisions represent increments of about 5.6 klx (factory setting 4 -5). In position '0' the sun monitoring function is turned off.

If the preset threshold is continuously exceeded for about 5 minutes, the unit will issue the "open" command. When the threshold is under run for about 20 minutes, the "close" command will be issued.

Continuously changing light conditions within the aforementioned time limits will not cause a travel command to be issued.

The optical sunlight detection field encompasses about 180°



Wind Sensor

The wind monitoring function has the highest priority (above manual operation functions or sun monitoring functions) and cannot be turned off.

The wind wheel measures wind speed in a range of about 10 to 50 km/h. The wind threshold can be adjusted with the "Wind" potentiometer (factory setting 4 -5). Each scale division corresponds to a change of about 4.4 km/h.

Changes to the wind threshold value can reduce the system's margin of safety.

If the threshold is continuously exceeded for a period of 3 seconds, the unit will issue a "close" command (LED illuminates). If the threshold is subsequently under run, a 20 minute delay time will begin (LED blinks). During this time the awning cannot be unfurled by either manual or automatic commands.

TEST AND DEMO OPERATION OF THE CONTROLLER

The controller possesses a "Test" mode setting intended for set-up and testing. This test mode uses shorter system times. Test mode is active when the "Wind" potentiometer is in its "T" position. The "Sun" potentiometer must be set to "1" or greater (not at its "0" position!). Normal mode operation is active when the "Wind" potentiometer is again set to a value of between 1 -10. As the controller has been preset at the factory you should not need to operate the test function settings.

MAINTENANCE AND CLEANING

The Soneva Remote Control System is basically maintenance-free. However, it is prudent to regularly check the free movement of the wind wheel, e.g. by simply observing that it rotates even for a gentle wind. Never use oils or greases to improve the wind wheel's freedom of motion. Dust and insects are best removed with a clean, dry brush.

The transparent cover over the sun sensors must be kept free of contamination to ensure the unit's reliable operation with respect to sunlight.

Clean this transparent cover with a soft cloth. Moisten the cleaning cloth slightly with a mild solution of water and hand-dishwashing liquid to remove stubborn contamination (e.g. bird droppings).

Never use aggressive cleaning agents or chemical solutions for cleaning because these can react with the plastic housing and may even be detrimental to the unit's functionality.

Never spray the Controller Unit with water, e.g. from a garden hose, because it is only protected from rainwater falling from above – not against spray water from the sides or from below.

TECHNICAL DATA

SONEVA SVA-2006M	Normal mode	Test mode (altered values)
Type of operation	Awning control	
Motor runtime	140 seconds, fixed value	
Runtime reserve (closing)	4 seconds, fixed value	
Intermediate position (opening)	Can be taught within motor runtime	
Transmit frequency	434 MHz	
Code as delivered	+ + - + + - 0 0 for UP + + - + + - 0 0 for OUT	
Trainable code	1	
Integrated wind wheel	1	
Wind threshold value	10 -50 km/h setting	5 km/h, fixed value
Wind furl delay	3 seconds	
Wind lockout time	Receiver specific, about 10 minutes	
Integrated sun sensors	2	
Detection angle	about 180°	
"Sun" setting range	about 10 -60 klx	5 klx, fixed value
"Sun bright" open command	after about 5 minutes	after 6 seconds
"Sun dark" close command	after about 20 minutes	after 6 seconds
Power supply	220-240 V/50 Hz	
Ingress protection class	IP 43 (for outdoor use)	
Operating temperature	-20 to +60°C	
Relative humidity	max 95% (non-condensing)	
Housing dimensions (including bracket) without / with wind wheel vanes	length 260 / 295 mm width 72 / 134 mm height 90 / 160 mm	

DECLARATION OF CONFORMITY

We herewith declare that this unit complies with the fundamental requirements and relevant regulations set forth by Guideline 1999/5/EU and that it may be used without registration in all EU countries. Additionally this system is in compliance with the ROHS heavy metals directive.

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