



# Ondeis™ WireFree RTS Rain & Sun Sensor 9019617

EN Installer Manual



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## Introduction:

The Ondeis™ WireFree RTS is a wireless and autonomus rain and sun sensor. It automatically retracts the awning when it detects rain or opens it when it is sunny, depending on previously determined settings. It is designed for roller, encased or cassette type folding arm patio awnings, retractable pergolas, exterior screens and rolling shutters.

If the awning is also connected to a wind sensor on a windy and sunny days the Ondeis™ will detect buffeting and prevent the awning from extending to protect it.

### Ondeis™ WireFree RTS Rain & Sun Sensor Overview

- Works with all Radio Technology Somfy® (RTS) exterior motors and Universal RTS Receiver
- Single channel combination rain and sun sensor
- Solar powered rechargeable battery
- Adjustable rain and sun thresholds
- Six different operation modes, Demo mode
- Flexible installation options
- Status LEDs for visual feedback
- Rain commands always take priority
- Operational temperature: 32°F/0°C to 140°F/60°C
- IP Rating: IP44

## Safety:

**Before installing and using this product, please read these instructions carefully.**

This product must be installed by a professional motorization and home automation installer, for whom these instructions are intended.

Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the operating and maintenance conditions for this product.

Any use outside the field of application specified by Somfy invalidates the warranty and discharges Somfy of all liability, as does any failure to comply with the instructions given herein.

Before installing please check the compatibility of this product with the associated equipment and accessories.

### Specific safety advice:

- Never drop, knock, drill or sumberge the sensor.
- Do not use abrasive products or solvents to clean the sensor.
- Do not clean it using a water spray or high pressure cleaning methods.
- Ensure that the sensor is kept clean and regularly check if it is operating correctly.

**NOTE:** The sensor does NOT operate under 32°F/0°C; standing water, snow or frost DOES NOT activate sensor.

This sensor will not protect your awning from heavy snow, if weather conditions present this sort of risk, ensure that the awning remains closed.

## What is in the box:

1. Ondeis™ WireFree RTS Rain & Sun Sensor with a mounting plate and 2 round head wood screws
2. Gutter mount:
  - 1 Aluminum gutter-mount bracket
  - 2 Socket head screws
  - 2 Flat head screws
  - 2 Nylon locking nuts



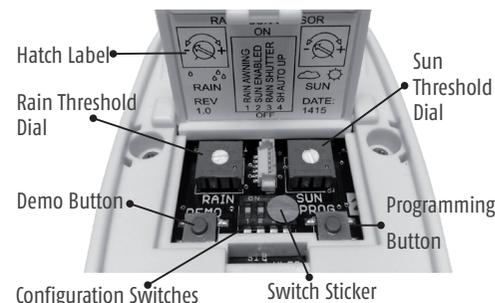
## LED Behavior Normal Operation

- Blinks every 5 seconds when conditions are above the threshold

## Demo Mode

- Alternate blinks when entering demo mode
- Blinks continuously when conditions are above the threshold
- Blink together when exiting demo mode

## GETTING STARTED



### 1) Charge the sensor.

- 10 minutes in direct sunlight will provide operation charge.
- For most efficient charging, open hatch and move all switches to the OFF position.



**2) Confirm** RTS motorized window coverings are operating properly from an RTS control. The UP command should send the awnings IN and screens/shutters UP.

**(To change the direction please follow the awning instructions)**

**3) Choose sensor operation mode.** The default setting is Awning Rain. For detailed explanations of operation modes, refer to Operation Modes on reverse.

**NOTE:** A Soliris transmitter (1810647 or 1811243 – not included) is required for Awning Sun and Awning Rain & Sun operation modes.

### 4) Select sensor threshold settings

#### a. Factory Default:

- Rain: 12 o'clock (arrow pointing up)
- Sun: 12 o'clock (arrow pointing up)

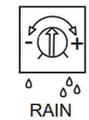


#### b. More sensitive: turn left

- Very light rain/heavy mist/heavy condensation
- Heavy cloud cover (.5 klux)

#### c. Less sensitive: turn right

- Very heavy rain
- Direct summer sun, no cloud cover



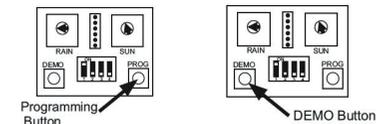
### 5) Program the sensor to the motor(s)

Step 1: Press the programming button on the RTS transmitter to put the motor into programming mode – motor will jog.

Step 2: Press the sensor's programming button – motor will jog again.



**Deleting the sensor - Repeat steps 1 and 2 above.**



**6) To confirm settings,** put sensor into demo mode to test rain/sun sensing without standard wait times.

- Briefly press and release "Demo" button. The associated motor(s) will jog and the sensor's LEDs will alternate blinks.
- Demo mode will time out after 2 minutes. To exit demo mode, press the Demo button again.

### SENSOR TIME DELAYS

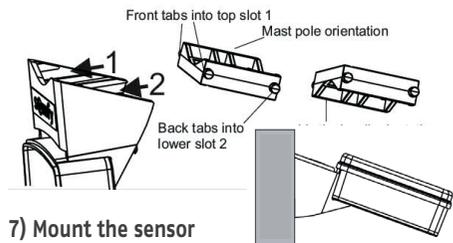
	DEMO Mode	Normal Mode
Rain present	0 sec (UP-Locked)	0 sec (UP-Locked)
Rain absent	3 sec (Unlocked)	15 min (Unlocked)
Sun present	10 sec (DOWN)	2 min (DOWN)
Sun absent	15 sec (UP)	15-30 min (UP)

# OPERATION MODES

## 7) Mount the sensor for maximum exposure to rain and/or sun.

- a. For best sun protection, sensor should be mounted facing same direction as the associated motorized window coverings.
- b. For best rain protection, sensor should be exposed to as much rain as possible.
- c. There are three different mounting options possible using included mounting plate and bracket: vertical mount, pole mount (using zip ties, not included) and gutter mount.

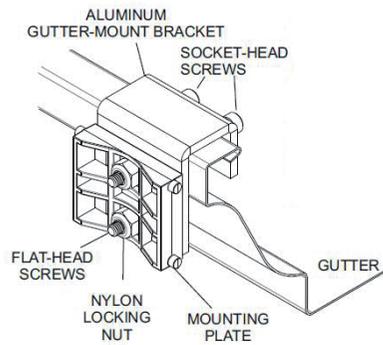
### Pole and Wall Mount



## 7) Mount the sensor

- The mounting bracket is released by pushing the bracket clips down gently towards the main body of the sensor and sliding out the mounting bracket.
- To replace the mounting bracket, press the bracket clips down gently towards the main body of the sensor and slide in the mounting bracket, making sure the front tabs move into the top slot and the back tabs into the lower slot.

### Gutter Mount



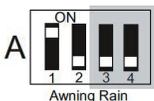
Securely attach rain sensor mounting plate to aluminum gutter mount bracket using flat head screws and nylon locking nuts. Slide gutter mount bracket over gutter lip and secure with socket-head screws.

**NOTE:** If the sensor is removed from a job site, it must be deleted from the motor's memory. If the sensor is removed from the jobsite while in a sensor mode, the awning will retract at regular intervals. The sensor must **ALWAYS** be deleted from the motor's memory before removing from the job site OR switching between awning and shutter/screen modes.

**Important:** A programmed sensor must be deleted from the motor's memory before it is changed between Awning or Shutter/Screen mode. Do not change between Awning and Shutter/Screen modes without deleting the sensor from the motor's memory first (to delete the sensor see step 5).

**NOTE:** A Soliris transmitter (1810647 or 1811243 – not included) is required for Awning Sun and Awning Rain & Sun operation modes.

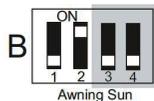
### Awning Modes (Sensor Modes):



#### A. Awning Rain (factory default)

- Rain over threshold: sends awning in
- Awning is locked until 5 minutes after last rain over threshold detected

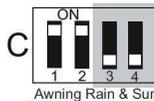
**NOTE:** Standing water, snow or frost DOES NOT lock the sensor.



#### B. Awning Sun

**NOTE:** A Soliris transmitter (1810647 or 1811243 – not included) is required to activate the motor's sun function.

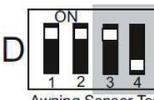
- Sun over threshold (for 2 minutes): sends awning out
- Sun under threshold (for 15-30 minutes): sends awning in



#### C. Awning Rain & Sun

**NOTE:** A Soliris transmitter (1810647 or 1811243 – not included) is required to activate the motor's sun function

- Rain over threshold: sends awning in
- Awning is locked until 5 minutes after last rain over threshold detected, even to Sun commands
- Sun over threshold (for 2 minutes): sends awning out
- Rain & Sun over threshold: sends awning in
- Rain & Sun under threshold (for 15-30 minutes): sends awning in



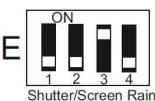
#### D. Awning Sensor Test

Allows testing of the sensor programmed to the motor. In this mode, pressing the DEMO button will extend the awning. This mode is for testing only. Do not leave the unit in this mode for normal operation.

**NOTE:** A Soliris transmitter is NOT required for Shutter/Screen operation modes.

### Shutter/Screen Modes (Transmitter Modes):

Remove switch sticker to access shutter settings



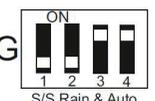
#### E. Shutter/Screen Rain

- Rain over threshold: sends shutters/screens down
- Rain doesn't lock the motor – transmitter commands will still work.
- Will not send another command until rain falls below the threshold for 5 min and then goes above again



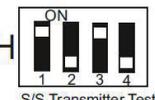
#### F. Shutter/Screen Rain & Sun

- Rain over threshold: sends shutters/screens down
- Shutter/screen will lock out sun commands until 5 minutes after last rain over threshold is detected; transmitter commands will still work
- Sun over threshold (for 2 minutes): sends shutters/screens down
- Sun under threshold (for 15 minutes): sends shutters/screens up



#### G. Shutter/Screen Rain & Auto Up

- Rain over threshold: sends shutters/screens down
- Rain doesn't lock the motor – transmitter commands will still work
- Rain under threshold (for 5 minutes): sends shutters/screens up



#### H. Shutter/Screen Transmitter Test

Allows testing of the sensor programmed to the motor. In this mode, pressing the DEMO button will send a down transmitter command. This mode is for testing only. Do not leave the unit in this mode for normal operation.

**Non-functional Dip Switch settings. Do not use the following Dip Switch configurations:**



This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions  
 - This device may not cause harmful interference and  
 - This device must accept any interference received, including interference that may cause undesired operation

Warning! Changes or modifications not expressly approved by the manufacturer could void the users authority to operate the equipment.