

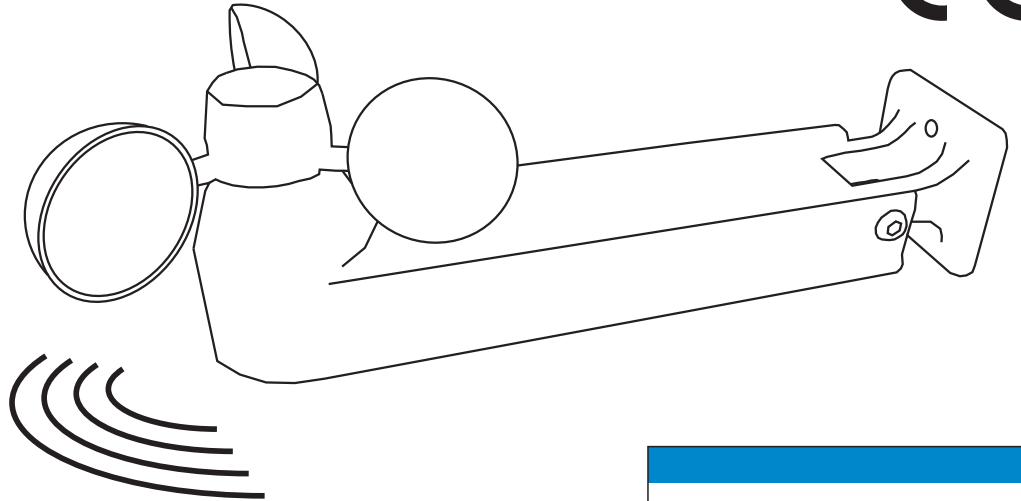
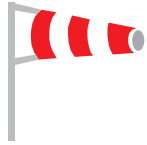
433,92 MHz

**MASTER**  
MOTION AHEAD

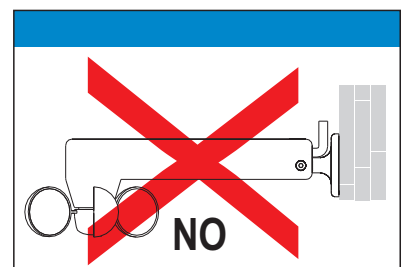
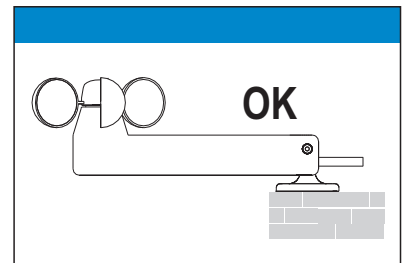
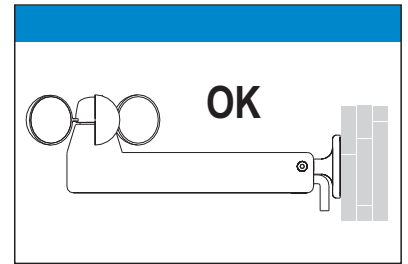
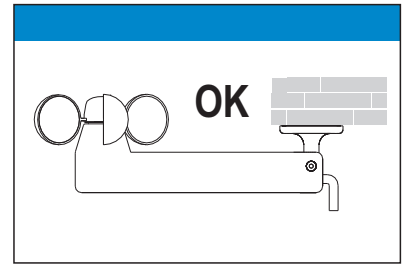


**Instruction guide for ECLIPSE BATTERY assembling.**

CE



**IMPULSE FOR MOTION**



## Warning



Dear customer, thank you for purchasing a MASTER product. Here you will find important information regarding the methods of use and the safety of installation.

**Comply with the following information and keep for future reference.**

ECLIPSE BATTERY is a sun and wind sensor and it can communicate via radio with receiving modules, inside or outside the motor, working at 433,92 MHz frequency and made by the same producer.

**The producer cannot be considered responsible for any damages due to improper, wrong or unreasonable use.**

**FOR A CORRECT INSTALLATION, IT IS RECOMMENDED TO READ THE FOLLOWING IMPORTANT INFORMATION.**

## Environmental conservation!

**Environmental conservation is an everyone's duty!**

MASTER uses packaging recyclable materials.

Dispose materials on the proper containers, complying with the law in force in your locality.

This product may have substances that are polluting for the environment and dangerous for the health. At the end of the product life cycle, carefully comply with the waste disposal rules. It is strictly forbidden to dispose the product on the domestic waste.

## 01. Important notes on radio systems



It is advisable to avoid using radio systems in areas with strong interference (for example, near police stations, airports, ports, hospital, etc.). A technical inspection is in any case advisable before installing any radio system in order to identify sources of interference.

Radio systems can be used where possible disturbances or malfunctioning of the transmitter or the receiver do not pose a risk factor, or if the risk factor is cancelled by suitable safety systems.

The presence of radio device operating on the same transmission frequency (**433,92 MHz**) can interfere with the radio receiver of the motor and so reduce the range of the system and limit the functionality of the installation.

## 02. Warnings on installation



**01.** The product must be installed by qualified technical personnel so as to comply with the standards and laws in force in your locality.

**02.** Check that the package is intact and has not suffered damage in transit.

**03.** Do not modify or replace parts without the manufacturer's permission.

**04.** If there are several radio motors in the same system, the minimum distance between them must not be less than 1,5 metres.

**05.** A violent shock and the use of unsuitable tools can cause the brackage of internal or external parts of the device.

**06.** Do not drill or tamper the device for any reason.

**07.** Do not install the product near metal surfaces.

**08.** Operating on the device with caution, using suitable tools.

**09.** Check that the sensor has been installed on the correct position and well exposed to the wind and that there are no obstacles to the blades rotation.

**10.** Check that the sensor placed over the blades is not obscured by trees, gutters, etc.

**11.** This sensor has not been studied for working with blades turned upside down (as on the first picture).

**12.** It is advisable to periodically clean the sensor dome with a damp cloth in order to always have the maximum ability to detect the sun.

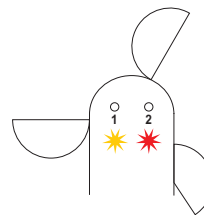
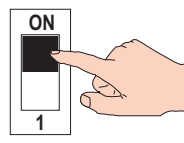
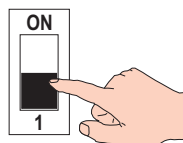
## 03. Technical characteristics (related to 20°C working temperature)

- Power supply : 3V battery
- Battery duration (estimate) : 5 years
- Working temperature : -20°C / +55°C
- Working frequency : 433,92 MHz
- Supported sensors : sun and wind
- Wind threshold : from 5 to 35 Km/h
- Sun threshold : from 1 to 45 Klux

## 04. ECLIPSE BATTERY switching on.



OPEN THE ECLIPSE BATTERY COVER AND SWITCH IT «ON» THROUGH THE SWITCH ON THE BATTERY



ONCE THE SWITCH IS «ON» THE ECLIPSE BATTERY SIGNALS ITS ACTIVATION THROUGH TWO LEDS LIGHTING.

IF THIS DOES NOT HAPPEN PUT SWITCH ON THE «OFF» POSITION, WAIT 30 seconds AND REPEAT THE OPERATION.

## 05. Sun / Wind threshold table and visual signals :

SUN threshold	
1	1 Klux
2	8 Klux
3	<b>15 Klux</b>
4	22 Klux
5	30 Klux
6	45 Klux



### SUN FUNCTION :

ECLIPSE BATTERY sends a sun presence transmission when intensity of the sun exceeds the set sun threshold for at least 2,5 minutes, and sends a sun absence transmission when the intensity of the sun is lower that the set threshold for at least 18 minutes.

(\*)

(\*) factory set up

WIND threshold	
1	10 Km/h
2	<b>15 Km/h</b>
3	20 Km/h
4	25 Km/h
5	30 Km/h
6	35 Km/h



### WIND FUNCTION :

ECLIPSE BATTERY sends a wind danger transmission to the tuned receiving modules when the wind speed exceeds the set threshold for longer than 3 seconds. It exits the wind alarm mode after 8 minutes from the last gust over the set threshold. The sun control is off during the wind alarm mode.

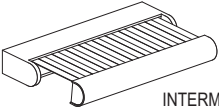
(\*)

(\*) factory set up

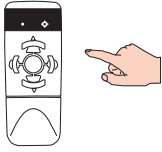


In order to preserve the duration of the mounted battery, no signals are sent during the normal working. Only when a transmission due to weather changing is sent (from wind presence to absence, from sun presence to absence or vice versa) the red led briefly lights.

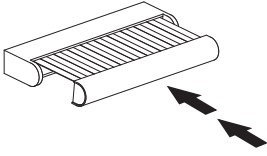
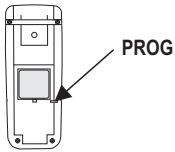
## 06. Memorize or delete ECLIPSE BATTERY on the receiver.



INTERMEDIATE POSITION  
(around half way).



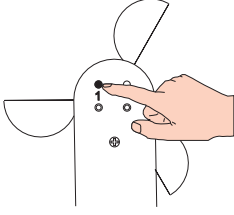
USING A STORED TRANSMITTER  
BRING THE MOTOR TO AN  
INTERMEDIATE POSITION.


HOLD «PROG» ON THE  
TRANSMITTER UNTIL THE MOTOR  
OPERATES 2 UPWARD MOVEMENTS.

TO MEMORIZE

HOLD BUTTON «1»  
ON THE SENSOR  
FOR AROUND 3 sec.

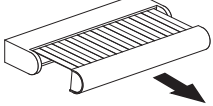


WITHING  
8 sec.



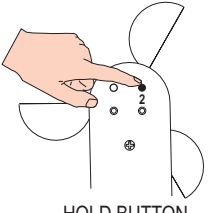
TO DELETE

HOLD BUTTON «1»  
ON THE SENSOR  
FOR AROUND 3 sec.



IF THE RECEIVING DEVICE IS SWITCHED ON AFTER A TEMPORARILY ABSENCE OF POWER SUPPLY, IT TAKES UNTIL 10 MINUTES TO RE-ESTABLISH THE RADIO TUNING WITH THE RADIO SENSOR.

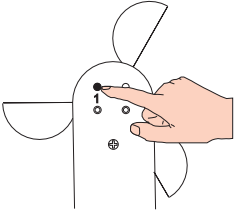
## 07. Wind threshold adjusting.



HOLD BUTTON  
«2» FOR  
2 seconds.

THE RED LED FLASHES THE  
SAME TIMES OF THE  
CURRENTLY SET WIND  
THRESHOLD


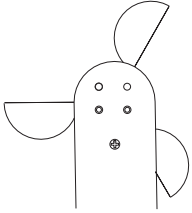
- Flash = 10 Km/h
- Flashes = 15 Km/h
- Flashes = 20 Km/h
- Flashes = 25 Km/h
- Flashes = 30 Km/h
- Flashes = 35 Km/h



PRESS BUTTON «1» THE SAME TIMES  
OF THE DESIRED THRESHOLD  
FOLLOWING THE «WIND THRESHOLD»  
TABLE


1 Time	= 10 Km/h
2 Times	= 15 Km/h
3 Times	= 20 Km/h
4 Times	= 25 Km/h
5 Times	= 30 Km/h
6 Times	= 35 Km/h

WAIT  
10 sec.

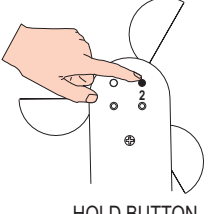
THE NUMBER OF FLASHES  
SIGNALS THE NEW  
SET THRESHOLD

- Flash = 10 Km/h
- Flashes = 15 Km/h
- Flashes = 20 Km/h
- Flashes = 25 Km/h
- Flashes = 30 Km/h
- Flashes = 35 Km/h



In order to check the right working  
of the wind alarm bring the motor  
to an intermediate position and  
ensure that the wind alarm moves  
the motor upward.

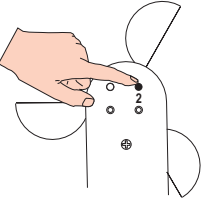
## 08. Sun threshold adjusting.



HOLD BUTTON  
«2» FOR  
2 seconds

THE RED LED FLASHES THE  
SAME TIMES OF THE  
CURRENTLY SET WIND  
THRESHOLD.

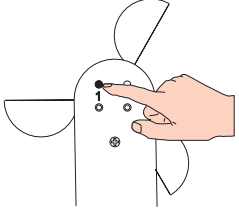
- Flash = 10 Km/h
- Flashes = 15 Km/h
- Flashes = 20 Km/h
- Flashes = 25 Km/h
- Flashes = 30 Km/h
- Flashes = 35 Km/h



PRESS AGAIN  
BUTTON «2».

THE LED FLASHES THE  
SAME TIMES OF THE  
CURRENTLY SET SUN  
THRESHOLD.


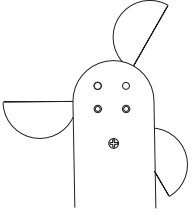
- Flash = 1 Klux
- Flashes = 8 Klux
- Flashes = 15 Klux
- Flashes = 22 Klux
- Flashes = 30 Klux
- Flashes = 45 Klux



PRESS BUTTON «1» THE SAME TIMES  
OF THE DESIRED THRESHOLD  
FOLLOWING THE «SUN THRESHOLD»  
TABLE

1 Time	= 1 Klux
2 Times	= 8 Klux
3 Times	= 15 Klux
4 Times	= 22 Klux
5 Times	= 30 Klux
6 Times	= 45 Klux

WAIT  
10 sec.

THE NUMBER OF FLASHES  
SIGNALS THE NEW  
SET THRESHOLD.

- Flash = 1 Klux
- Flashes = 8 Klux
- Flashes = 15 Klux
- Flashes = 22 Klux
- Flashes = 30 Klux
- Flashes = 45 Klux

