



QUICK INSTALL GUIDE



WooBee



The **WooBee** is an IP68 rated waterproof irrigation controller equipped with a display and operating on a 9V battery or four 1.5V AAA batteries. It can be programmed via a Bluetooth® connection from a smartphone/tablet or using its keypad. It can control 1 to 6 9V latching solenoids and has a rain sensor and a water meter input.

1 Installation

Unscrew the battery cap and connect the 9V battery or the 4 x 1V5 AAA battery pack.





Starting display






CONFIGURATION OF THE BATTERY TYPE

From the «Set time» menu, you can select the type of battery used: «9v» for a 9V battery or «AAA» for 1.5V AAA batteries. In order to do so...

- Press  4 times to enter the setting mode (date, battery type).
- Press  7 times to reach the choice of battery type.



*Choose with
these buttons*

- Press  to confirm your choice.
- Press  to return to the main menu screen.  **INFO**

The WooBee can be directly installed on a solenoid valve using its removable support on the back. It can also be securely mounted on a wall using the two fixing holes on the back.



2 Operation with Bluetooth

Download the MySOLEM app on your smartphone or tablet from the **App Store** or **Google Play**.



PAIRING

1. Launch the MySOLEM app on your smartphone or tablet.
2. Tap on the « **Add module** » button or the « **+** » button.
3. Choose « **WooBee** » from the list of nearby controllers.
4. Follow the next steps as described in the application.

Notes :

- Set a name and security key for your controller, then press « **Validate** ».
- To identify your WooBee among the controllers available nearby, refer to the «Default name» on the label fixed on the back of the product.
- In order to fully benefit from all the product features, it is recommended to create a MySOLEM account.


PROGRAMMING

Choose the product that has been previously associated, and follow the intuitive programming process by navigating through the various menus.

SECURITY KEY

The security key protects your controller.

A. Set key

Set it up either during the « **ASSOCIATION** » process or by accessing the product information clicking on the  icon at the top right of the screen. The key will lock the keypad one minute after the product goes to sleep.

B. Unlocking keypad

The manual unlocking of the WooBee keyboard is done with the following buttons:



1



Locked keyboard

4

Press 

*to move to
the next digit*



2



**Press one of
these buttons:**



The first digit blinks

5

**Repeat the last steps
until the 4th digit.**

3



Press  **or** 


*to increase or decrease
the first digit*

6

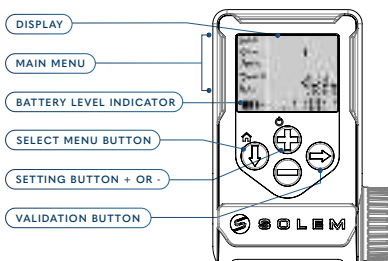
**Unlocked
keypad**



C. Disable the key

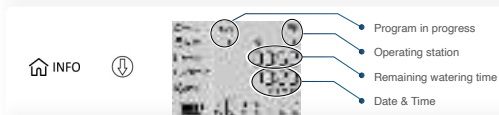
To disable the key, go to « **Product Information** » by clicking on the  icon at the top right of the screen. Then, delete the key.

3 Operation without Bluetooth



Thanks to its large screen and keyboard, the WooBee can also be programmed without Bluetooth.

MAIN MENU



RUN OR STOP MANUAL COMMAND:

Manually turn on a station or a program (A,B,C...) and/or shutdown the watering in progress.



SET THE IRRIGATION PROGRAM

Allows to set the custom programs that will be started automatically.



ON/OFF COMMAND :



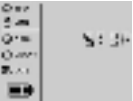


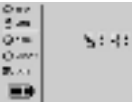








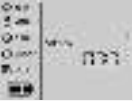


Disable any current or future programs.



SET DATE & TIME :

Allows to set the date and time of the current day in 12 or 24 hour format.

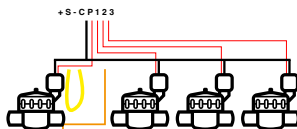
MANUAL CONTROL EXAMPLE

Select	 MAN 		Validate 
Select the Station mode			Validate 
Set the Station mode	  		Validate 
Set the duration	  1 min to 12 hrs		Validate 
Watering begins			


Find the configuration details on the installation guide at <https://solem-irrigation.com/>
or on the **MySOLEM app**.

4 Valve wiring

Connect the valves
to 9V latching solenoids.



5 Sensor wiring

The WooBee has a sensor input + S - to connect a rain sensor  or a water meter pre-equipped with a pulse sensor, only configurable with the mobile application MySOLEM. By default, the sensor input is configured for the rain sensor. To change the sensor with the application, delete the active sensor.

+ S - C P 1 2 3



WATER METER



If your pulse sensor is polarized, observe the polarity when wiring:

Red wire → + **Black wire** → -

5 Water budget (optionnel)

The Water Budget adds a percentage of time to the duration of each station. It is normally used when changing seasons. Ex: If you entered Station 1 = 1h on Program A and Station 2 = 0h30 on Program A, then enter a Water Budget 120 % for Program A. When the Program A starts, the stations 1 and 2 will be increased by 20%, (ex 1h12 for Station 1 and 0h36 for Station 2).

MONTHLY WATER BUDGET

The Monthly Water Budget allows you to add a percentage to the station time indicated in each of your programs. This means you can define a percentage for each month, enabling you to anticipate seasonal weather changes.

The idea is to take as a reference the watering time of each of your stations for the month of July, which will be the maximum watering time. For this month of July, you will define a Monthly Water Budget of 100%. The other months will have lower percentages. For example: March = 50%, May = 80%.

This Monthly Water Budget is added to the Water Budget indicated in the program.

SETTINGS

By default, if you don't use it, the Monthly Water Budget is automatically set as 100% for every month of the year. To set up the Water Budget functionality:



1. Connect to the programmer by activating your phone's Bluetooth.
2. Go to the product settings by clicking the **green gear** at the top right of the screen.
3. Click on « **Monthly Water Budget** ».
4. Adjust the water budget for each month.
5. Once your changes have been made, submit the new settings by clicking on the « **send** » button for iOS or the arrow at the bottom right of the product's main screen for Android phones.

TECHNICAL CHARACTERISTICS

SPECIFICATIONS:

100% waterproof (IP68 rated)
Rain sensor or Water meter connection Master valve connection
9V latching solenoid compatible
Maximum wiring length with solenoids: 30m
Operating temperature: -10°C to 50°C
3 years warranty

POWER SUPPLY:

9V 6AM6 or 6LR61 alkaline battery or 4 x 1.5V
AAA alkaline batteries

OPERATION:

Bluetooth® Smart 4.0 Low Energy Frequency band used and maximum emitted power: [2400-2483.5]Mhz, 1mW Permanent backup of the programs Backup of the internal clock in case of power failure < 30 seconds

DIMENSIONS:

Width : 10.5cm (3.94 inches)
Height : 15cm (5.90 inches)
Depth : 5cm (1.97 inches)

GENERAL INFORMATION



Indicates that the product uses Bluetooth® technology.



Affirms the goods' conformity with European health, safety, and environmental protection standards.



Dispose this device separately. Do not dispose it along with household waste. Please use the collection and recycling points available in your country when your device is no longer of use.



Indicates that the product is shock resistant.



Indicates that the product is resistant to UV radiation.



Indicates that the product is waterproof.

EUROPE: DECLARATION OF CONFORMITY

Solem Electronique has declared that the WooBee irrigation controller complies with the essential requirements of the European directives:

Directives 2014/53/EU (RED):

Harmonized standards:

BLE standard: ETSI EN 300 328 v2.2.2

EMF standard: EN 62311 (2008) and recommendation 1999/519/CE

EMC standard: EN 61000-3-2 (2019) / EN 61000-3-3 (2013 + A1/2019)

& ETSI EN 301 489-1 v1.1.1 & EN 301 489-17 v3.1.1

Electrical Safety Standard: EN 62368-1 : 2014

RoHS directive 2011/65/EU & amendment of directive (EU) 2015/863

Clapiers, 23/11/2023

SOLEM ELECTRONIQUE

ZAE La Plaine

5, rue Georges Besse

34830 Clapiers,

FRANCE

Oliver Aussillous

Industrial Manager



FCC NOTICE

Caution: the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 instruction, may cause harmful interference is not 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 interference by one or more of the following measures:

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

This device complies with FCC RF radiation exposure limits set forth for general population.

This device must be installed to provided a separation distance of a least 20cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter.

IC STATEMENT

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

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada license-exempt RSS standards). Operation is subject to the following two conditions:

1. This device may not cause interference,
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with Industry Canada RF radiation exposure limits set forth for general population. This device must be installed to provide a separation distance of a least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.