



## WARNING

- Use 9 volt alkaline batteries only
- Connect battery poles one by one
- Check the current battery level at the beginning of the season
- Be sure that controller is completely screwed in order to grant gasket sealing
- Wait for 30 seconds between manual opening and closing in order to let recharge the condenser
- Static or working pressure minimum 0.4 bar - maximum 10 bar
- A properly working is granted only if the controller is installed on Rain electric valves
- Effect the usual periodical maintenance of the electric valves
- It is suggested to remove the controller during winter season
- During programming session, after 20 seconds without pushing any button the controller will come back to the first screen and will be saved only the confirmed information
- Water sprinkling devices must be installed in the open and in places supplied with exhaust

Do not disperse in the environment, do not swallow as urban refusal and make separate collection.

Require information to the supplier for the recovery and draining upon the purchase of a new device.

Do not use in a wrong manner a device or some of its parts since it could have demaging and dangerous effects for the health and for the environment.



rain  
EVO

RAIN EVO<sup>AG</sup>

## Centralina a Batteria

### Battery Controller

## Programmateur à piles

### Programador a pila

## Technical details

- 1 Completely waterproof
- 2 Working by batteries
- 3 Functioning by hand programmable
- 4 Weekly Calendar
- 5 Possibility to program several irrigation cycles during the day
- 6 Easy to programm
- 7 Function "Low Battery"
- 8 Function "OFF/RAIN"
- 9 Function "Count down"
- 10 Rain sensor connection
- 11 Rubber protection cover

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## ISTRUZIONI

## Introduction

Battery controller Evo<sup>AG</sup> is studied for agricultural application, especially when is needed ad cyclic programming. In fact Evo<sup>AG</sup> program requires a star time, a stop time and than one irrigation run time and one pause time.

For example:

Irrigation start time 08:00

End of irrigation 21:00

Irrigation run time 30 min

Pause time 10 min

The total irrigation time is 13 hours composed by alternate cycles of 30 min of irrigation and 10 min of pause.

## Freeze program function (Off/Rain)

With this function is possible to stop watering and freeze the program without change the setting.

- Press the + button to active and inactive the setting, the display will appear as the figure.



## Connecting a rain sensor

To connect a two wires sensor cut the red wire of Rain Evo<sup>AG</sup>. When weather condition dictates, the controller stops watering and on the display will appear an icon as the figure. Leave unchanged the wire if you don't connect rain sensor.



## "Low Battery" function

When batteries are discharged, an icon as the figure will appear on the display and the valve will remain stopped. Change the batteries and set the controller again.



## DESCRIPTION

Rain Evo represents the third generation of battery controller introduced by Rain S.p.A. in the irrigation market.

The development of this new product is relative to the quality and easy-to-use; high quality of material and the attention given to the realization of the software make this product to be in the van of the battery controllers market.

Easy and intuitive, the programming is particularly flexible thanks to the possibility of manage the irrigation through a weekly calendar.

The battery controller Rain Evo<sup>AG</sup> can be connected to the rain sensor, this device has to be of mechanical type with two wires and has to be connected to the two red wires of the controller; without the rain sensor the connection wires have to be kept connected, a possible disconnection could cause a situation of OFF RAIN what is the same of cancelled irrigation.

The Rain Evo<sup>AG</sup> is powered by two 9 volt batteries. Put them in the apposite accommodation after having connected the controller to the electric valve, this allows the controller to reset and put it in close position the valve.

# Programming the controller Rain Evo<sup>AG</sup>

In order to program Rain Evo<sup>AG</sup> you need only 3 buttons:

- ◆ The → button (enter) to move from a screen to another one and to confirm the set information
- ◆ The + button (incr.) to modify or increase data
- ◆ The 🖐 button (Man./Back) to confirm the weekly calendar, to active the manual open and to come back to the previous screen

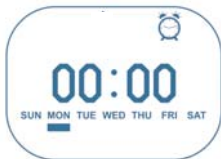


**Note:**  
During programming session, after 20 seconds without pushing any button the controller will come back to the first screen and will be saved only the confirmed information.

## Setting the date/time and current day

Once batteries are connected, first the controller auto resets, than the display will appear as the figure; the minutes icon starts flashing.

- ◆ Press the + button to increase the units minutes
- ◆ Press the → button and the tens minutes icon starts flashing.
- ◆ With + button increase tens minutes
- ◆ Follows the same procedure for hour unites and hour tens
- ◆ Press the → button and the slash under the weekly days starts flashing
- ◆ Press the + button to move the slash under the current day
- ◆ Press the → button to confirm and proceed to the next operation



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## Setting Days to water

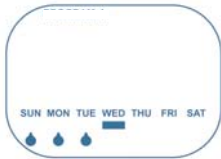
Choose the specific day in which irrigate:

- ◆ Press the → button and the slash under the day starts flashing
- ◆ Press the + button to move the slash under the day selected
- ◆ Press the 🖐 button to change the current set up

Therefore: 🖐 button to set or remove the watering days.

At the end press the → button to confirm all your settings and the + button to come back to the main screen (current hour).

To change your settings press the → button and follow the procedure above described.



Irrigation count down

Run Watering

Now your controller is programmed and the display will appear as the figure



To change your setting:

- ◆ → button to go into the setting
- ◆ + button to go in the screen you would change

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## Set up irrigation start time

- ◆ Press the → button and the minutes (units) will flash
- ◆ Press the + button to set up minutes of first irrigation starting time and program the other data as you did to set up current time



## Set up of irrigation end time

- ◆ Press the → button and the minutes (units) will flash.
- ◆ Press the + button to set up minutes of first irrigation starting time and program the other data as you did to set up current time



## Set of irrigation run time

- ◆ A clepsidra with Roman numeral II and the inscription OFF will appear on the display: the set up running times is expressed in seconds.  
In case you would like to have run time in minutes press the + button and a clepsidra with a Roman numeral I will appear. The minimum run time is 1 sec.
- ◆ Press the → button to modify OFF, once pushed three "zero" will appear, one of them will flash
- ◆ Press the + button to set-up the minutes/seconds units of irrigation runtime and set up the left data as you did for current time



## Set up of the interruption between the irrigation cycles

This function, which has been studied just for agricultural uses, fixes the interruptions between the irrigation cycles, in the period of time set up as the beginning and the ending of the irrigation run time.

- ◆ Push the → button to modify OFF once pushed it will appear three zero which one will flash
- ◆ Push the + button to set the minutes of the break up



Set up is expressed in minutes (min. 1 min. - max. 360 min.)

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The display appears as the figure during irrigation (count down)

## Manual Watering

Rain Evo<sup>AG</sup> has set a manual watering of 3 minutes, to change the length press the + button and modify the setting, from minimum 1 min. to maximum of 360 min.

- ◆ Press the 🖐 button to open manually the valve
- ◆ To change the minutes of watering, press the + button and confirm with → button
- ◆ Otherwise after 20 sec., the controller will start automatically with the 3 minutes of watering
- ◆ Press 🖐 button to stops the manual watering



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