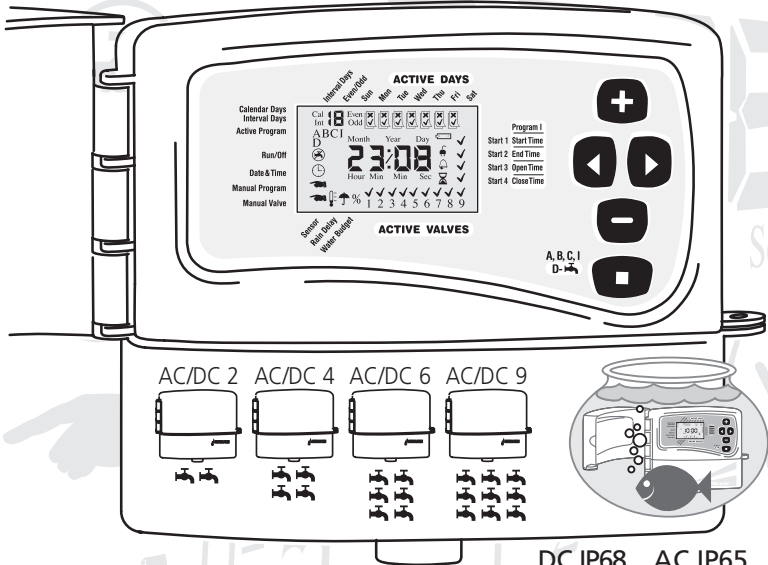




# Miracle Plus User Guide

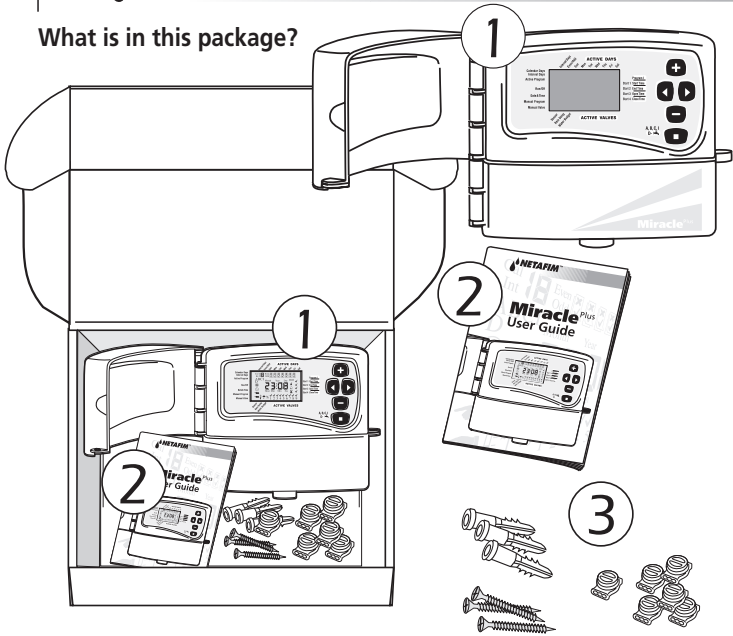


DC IP68 AC IP65

2



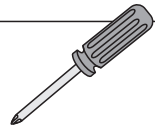
What is in this package?



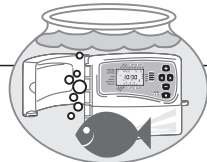
What else do I need?



1-9



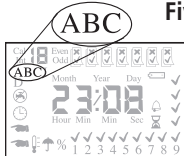
Moisture sensor (Optional)



DC IP68 AC IP65

## Features of the MiraclePlus

### Five different irrigation programs:



Selected days.  
Up to 4 start times.  
1 to 9 valves.  
Option of each valve separately.



watering in seconds  
in a defined time  
window (see page 12).



watering set per  
valve (see page 13).

### Special Features:



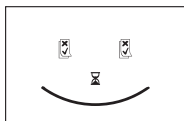
**Water Budget:**  
200% to 10%  
in irrigation time.



**Rain Delay** puts  
program on hold till  
resume operation  
as programmed.



**Rain/Moisture  
Sensor:** an  
optional sensor  
input stops  
irrigation when  
soil is wet.



**Reliable Backup:**  
Nonvolatile memory:  
All programs are saved (for  
ever) in case of battery  
failure or replacement.  
Date and time are kept for  
1 minutes.



Calendar Days

Interval Days

Active Program

Run/Off

Date & Time

Manual Program

Manual Valve

**ACTIVE DAYS**

Interval Days  
Even/Odd  
Sun Mon Tue Wed Thu Fri Sat

Cal Int	18	Even	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Odd			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ABC I		Month	Year	Day	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D		Hour	Min	Min	Sec	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		1	2	3	4	5	6	7	8
		9							

Sensor  
Rain Delay  
Water Budget

**ACTIVE VALVES**

Prog

Start 1 Star

Start 2 End

Start 3 Open

Start 4 Clos



MiraclePlus is on.



MiraclePlus is off.



Clock icon. Time and date are not complete.



Manual Operation (program).



Manual Operation (valve).



Sensor is working and blocks irrigation.



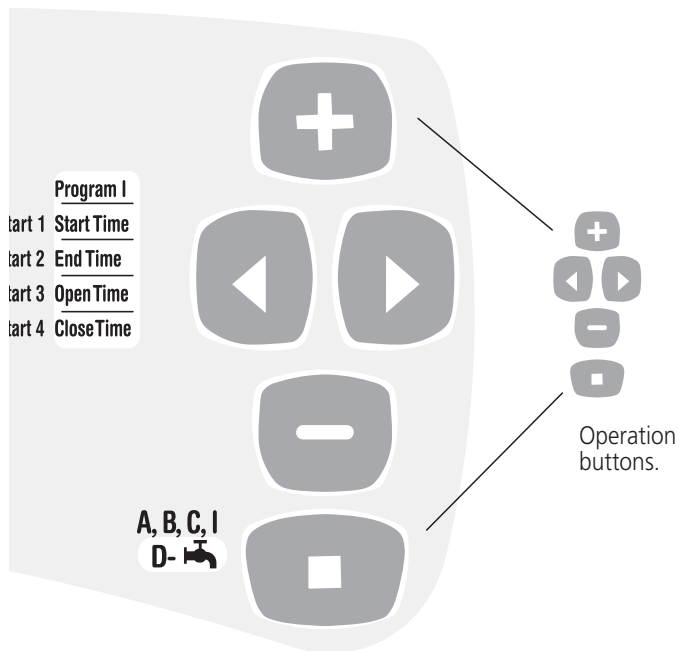
Power failure



Date indicator



1 Valve indicator.




 Rain Delay. Enables a defined irrigation-free days.


**A B C I**  
**D** Irrigation program indicators.

 Warning! Check connections

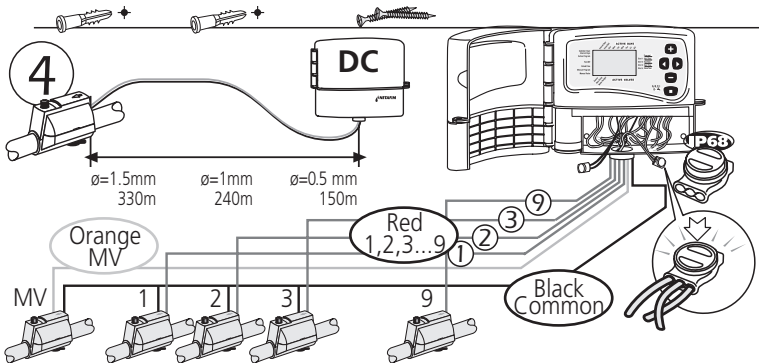
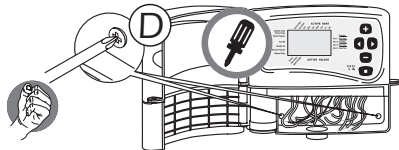
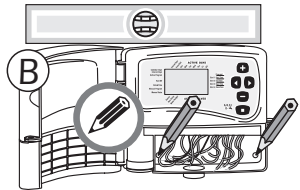
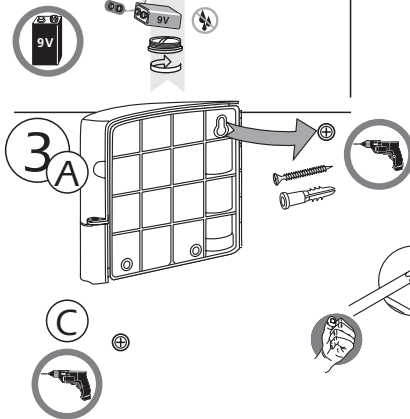
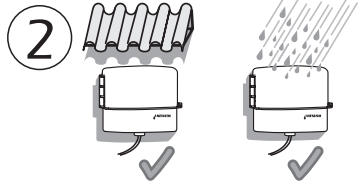
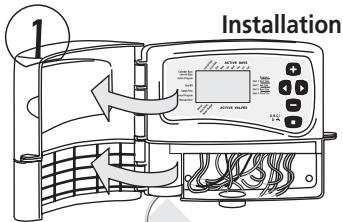
**%** Irrigation time as a percentage of value set (per program).

 Caution-Battery low!

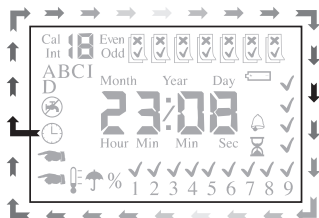
 Start time indicator.

 Battery out of power and must be replaced.

 Miracle Plus in operation.



## Operation Instructions



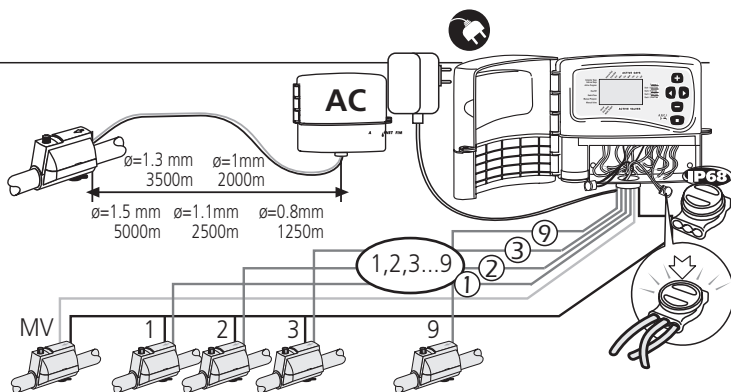
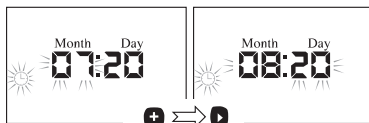
programming:

- Increase parameter value
- Next parameter
- Previous parameter
- Decrease parameter value



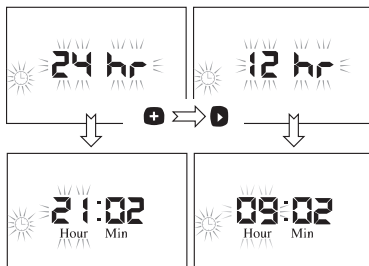
### Set Date and time

Set Date

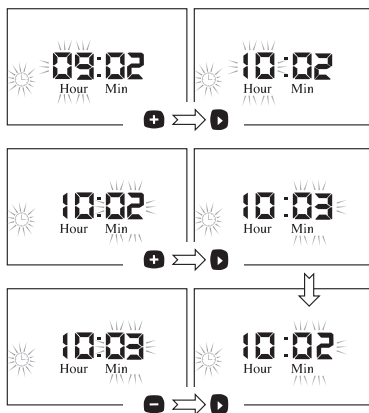




Set 24 or 12 hour setting



Set time




 MiraclePlus  
 is now ready for  
 programming:





### Programs A, B & C:

selected days with up to 4 start times, up to 9 valves, each operates separately (not simultaneously in the same program).

For simultaneously operation, use **same** start time for 2 or 3 **different** programs.

First program will be A, followed by B and then C.

For selecting active days: a) calendar days - (Sun, Mon, etc.)

- b) fixed interval days (e.g every 2nd day). with this option you may select odd or even dates (odd:1,3,5 even 2,4,6), and define non-irrigation days.

ABC

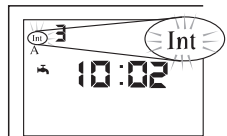


### Calendar Days as Active Days

1. Press **+** to select today as an active day. press **▶** to continue (to the next day-tomorrow).
2. Next day flashes. Press **+** to select second active day. Press **▶** to continue and so on.

if you do not want a particular day to be included, press **▶** to continue (without pressing **+**).

3. To deselect any day press **▶** till you reach the chosen day and press **-**.



### Active Days with Interval

press the **+** to define an interval (1 to 19). Active days will start **tomorrow** followed by (1 to 19) days you have defined, and then the next active day as a pattern.



### Active Days on Odd or Even Dates

Press **+** to select **Odd** or **Even** dates as active days.

**Note! 31nd of any month and the 29th of February considered as Odd days.**

### Active Days with Calendar

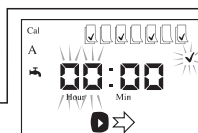
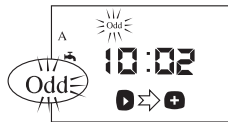
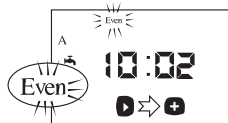
Set irrigation/non irrigation days.

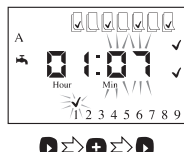
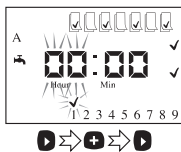
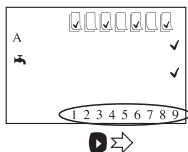
1. Press **▶** to choose first for interval count. Press **+** to activate the date.
2. To define any day as non irrigation day press **▶** to selecte the day and **-** to define it as non irrigation day

### Selecting Start times

Select up to 4 Start times during 24 hours of each selected days. Press **▶**, after the last day of the week. A ✓ flashes on the right and new time field is displayed. Press **+** to set the hour of the first start time. Press **▶** and **+** to set minutes. Press **▶** to confirm and to open next start time. A ✓ icon now flashes (under the first). New time field opens. Press **+** to set hour, Press **▶** to confirm. Press **+** to set minutes. press **▶** to confirm and so on with next 2 start times. If you want less than 4 start times, press the **▶** button without entering a time

**Note! The controller sorts the start times automatically. If you scheduled setup start time 2 earlier then start time 1, the controller automatically will switch between them.**



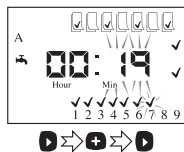
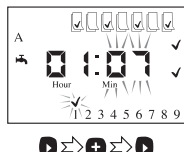


### Selecting Valves and irrigation time

Valves are listed (1 to 9) at the bottom of the screen. Press after setting last start time.

A flashes on top of the first valve, a glass hour icon appears, and a new time field (to set duration of irrigation for this valve) is displayed.

Press to set time and to move on the second and so on for each of the connected valves.



You have created your first irrigation program – program A. You can set two programs more (B,C) with selected Active Days. To move on to the next program press .



**Note!** It is not recommended to switch among programs during programming. Use this method in case of changing one parameter to all of your programs (e.g. Rain delay)



### Program I (pulses irrigation)

Set Start time and End time to define an irrigation window (hours & min.).

Set Open time and Close time (hours, min. & sec.) to defined the pulse duration and time between pulses.

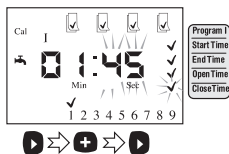
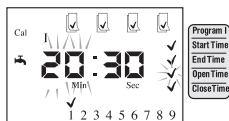
**To enable program I** Press continuously together till - I - appears (A B C I).

Set Active Days as for programs A B C (see page 9-10).

Select first valve as for programs A B C (see page 11). The time parameters flash on the right of the screen, (same place as the Start Times for programs A B C, see page 11).

#### Set time parameters for selected valve:




- Enter the **Start Time** for the **Time Window**
- Enter the **End Time** for the **Time Window**
- Enter the **Open Time**, (time in hours, min., sec. that valve will be open).
- Enter the **Close Time**, (time in hours, min., sec. that valve will be closed).



**Note:** Set the irrigation days for the entire valves in program I.

Set the time parameters for each selected valve individually.



## Program D

Program D is different from programs A,B,C. Active days and start times are set specifically for the each selected valve. **To activate program D** Press   together continuously till the letter **D** appears. Press the  button to select a valve.

Set Active Days for the selected valve as for programs A B C, (see page 9). Select Start Times for selected valve and active days, same as setting Start Times for programs A B C,(see page 10).




Set irrigation duration for each valve (see pag 11). Select a second valve (if required) and repeat the same steps as detailed above and so on to other required valves.






**Note! When selecting program D, programs A, B, C and I are not available. By switching to program D, ALL OTHER PROGRAMS (A,B,C,I) WILL BE ERASED. To switch back from program D to A, B,C, press   together continuously till the letters ABC appear.**


## Rain Delay

Enables delay program for selected number of days if for example your weather forecast is for rain.

Press  or  till icon  is flashing.


Press the  to enable it. Press the   repeatedly to enter the number of days that you wish your program to be set on. At the end of this period, the program will resume operation as originally set.





**Note!**  
When Rain Delay icon appears ()  
the chosen program is disabled.

## Water Budget

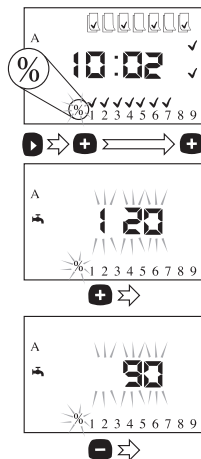
Enables to reduce or increase irrigation time (200%-10%) to match seasonal changes.

Press  till -%- flashes.




Press  or  to increase or decrease irrigation time in your selected program by percentage.


### Note:

- Water Budget has to be implemented for each program individually.
- It is not available for program I.
- If water budget  $\neq$  100% the % icon will be shown on screen.

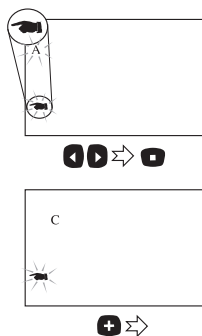


## Manual Operation of program:

Press  or  till the upper icon  is displayed and flashing.

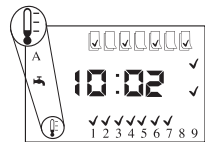
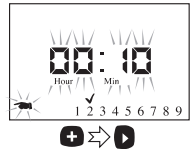
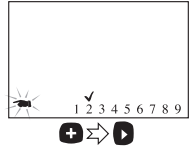
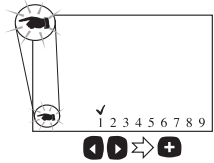
Press  to activate (current program with selected valves and operating time only).

Press  to activate the program.



**Manual Operation of a selected valve:**

Press or till the lower icon is displayed and flashing. Press to select a valve. Press to set a run time for the selected valve (hours, min.). Press . The digits will flash. Press again to activate the valve. Press to disable it. Repeat the same for each valve you wish.

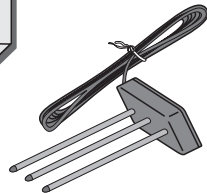


**Optional Sensor input**

When Soil moisture sensor is activated (open = ON) the irrigation program that is currently run will stop (can be activated with all program but program C).

**Note:**

The sensor input is normally close.



Netafim Irrigation Inc. products are guaranteed to be free from defects in material and workmanship for a period of one (1) year from the date of delivery.

This warranty does not apply where equipment is not used and installed strictly in accordance with Netafim specifications and User Manual. Neither does it apply to failures caused by lightning strikes or damage due to freezing temperatures, Water corrosion (in AC models only) or mechanical causes (e.g. lawn-mowers) . Netafim is not liable for indirect, incidental or consequential damage in connection with the use of equipment.

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Email: [postmaster@Netafim.com](mailto:postmaster@Netafim.com)

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