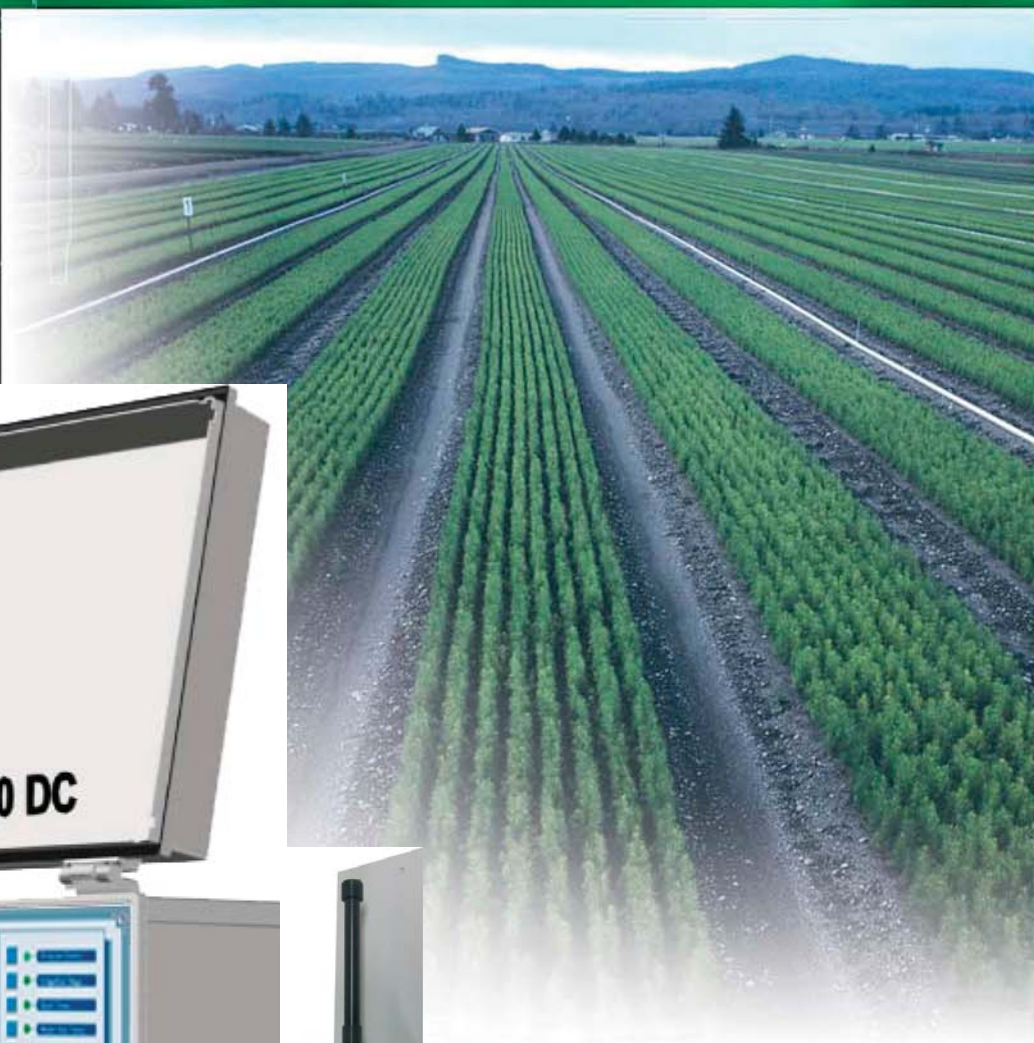


Irrigation



BERMAD Irrigation

BIC 1000 DC
With and Without Radio
Operator Manual

VERSION : SOFTWARE DC-3.34



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BERMAD Irrigation

I. Introduction

The BIC 1000 DC is a user friendly, professional time based irrigation controller. The system can manage irrigation, fertilization, filter station back flushing and the activation of a pump, all in a simple and straightforward manner.

The system includes 4 irrigation programs that may contain any number of valves and groups of valves that will be irrigated sequentially. Each valve or group may have its own run time and fertilization program. Each program may have 6 start times or irrigate in a cycle for any number of cycles. The programs may run in parallel without disturbing each other.

The fertilization can be carried out in three stages, including pre-watering, injection, and post-watering. The mode of fertilizers injection can be proportional or continuous.

The user may change the defined run times per program by percentage. For eliminating irrigation during rainy days, a rain delay can be defined.

The modular structure of the system enables expansion of the number of outputs from 16 to 32.

The available outputs can be allocated to the desired number of irrigation valves, up to 3 fertilizer injectors, 1 pump/main-valve and to the required number of filters.

There are 4 digital inputs to which the user may connect a water meter for display of the flow, a pressure switch to protect the system from excess pressure, a differential pressure sensor for triggering filter back flush cycle and a start contact that may activate program #4 and halt the regular programs when needed.

The user friendly control panel consists of rotary selector push buttons LCD display and LED indicators.

Features and Benefits

- Independent of the main power supply grid
 - Protected against unreliable power supply
 - Protected against high and low power supply spikes
 - Lightning protection
- BIC1000 is simple to operate
- Built-in radio ready
 - Any combination of local and radio control outputs
 - No need for external BUS systems
- Professional time based control
 - Up to 32 valves operating simultaneously in groups or individual scheduling
 - Pump start/stop
 - Filter flush program with optional different flush time per filter
 - Up to three fertilizers, injection continues or proportional.
 - Irrigation cycles; continues cycle, interval or number of cycles
 - Pressure surge protection settings.
- Four Inputs
 - Pressure Differential gauge for Filter flush - Digital or analog with PD display and settings
 - Water meter - Pulse or frequency
 - Line pressure switch
 - Program start for irrigation and cooling / frost dual systems

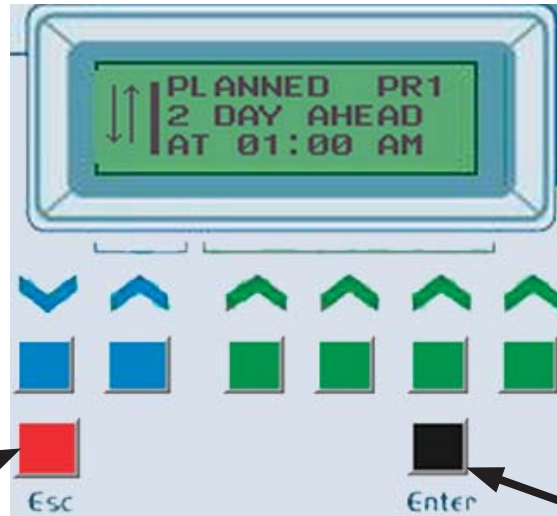
Technical Specifications

- **Power Supply**
 - Rechargeable 12V, 7aH battery
 - 20 Watt Solar panel
 - Built-in charge controller
- **Outputs**
 - 16 or 32 Local DC Latch
 - 16 or 32 Combination of local and radio controlled valves
 - 32 Radio controlled valves
- **Inputs**
 - 4 dedicated dry contact
 - 1 Analog Pressure Differential (PD) gauge
 - 1 Frequency water meter



BERMAD Irrigation

2. Controller Face Panel

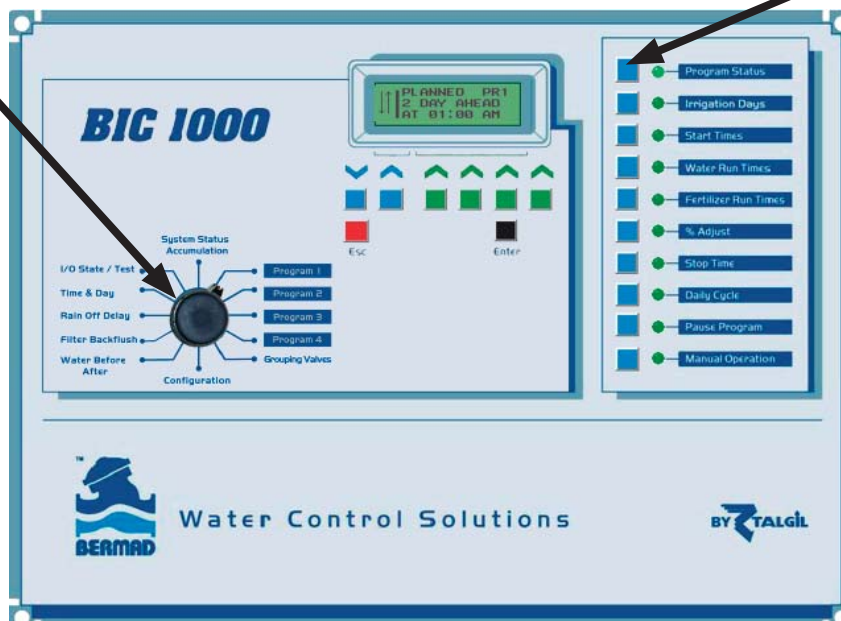


VALUES SETTING KEYS – these 4 keys are designed to choose the desired values/option for the currently edited field. For setting numeric values, use the left most key for the left most digit, the right most key for the right most digit etc...

Esc key – allows exiting edit mode without changing the data and returning the previous screen (if available)

Enter key – this key enters edit mode, allowing changes to be made by the user, and to confirm them afterwards.

Main rotary switch.
Rotates between system configuration subjects and 4 programs.



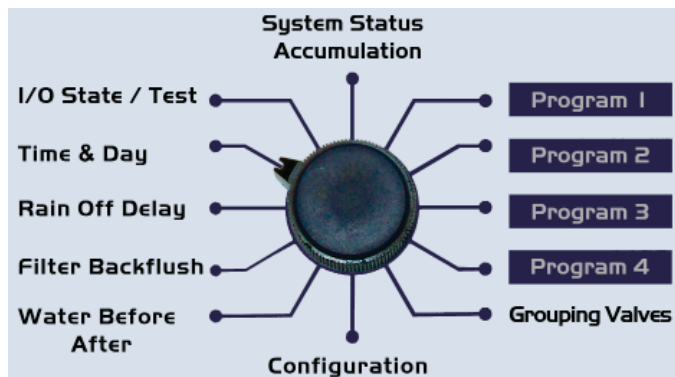
Program Function buttons.
Each button represents a different subject. The subjects controlled by these buttons are illustrated to the right of each button.



BERMAD Irrigation

3. Setting Time and Day

The first step in the controller setup is the definition of time and day.



Turn the rotary switch to “Time and Day” position



Setting Current Time:

1. Press the enter button to start edit mode. The current time numbers will start flashing.
2. Use the 4 “VALUE SETTING” keys to set the current time. In order to change from AM to PM use the left most key of the “VALUE SETTING” which will cycle between the following – 1 AM, 0 PM, 1 PM and 0 AM.
3. After selecting the current system time press enter to confirm.



Using the Up arrow blue key, scroll to set the Run-List Length. The Run List is the number of days in the irrigation cycle.

1. Press the enter button to start edit mode. The run list span numbers will start flashing.
2. Use the 2 right most “VALUE SETTING” keys to select the desired run list span.
3. After setting the run list span press enter to confirm.



Using the Up arrow blue key, scroll to set the Current Day.

Day 01 is the first day of the irrigation schedule usually represent Sunday or Monday

Setting Current Day:

1. Press the enter button to start edit mode. The current day’s numbers will start flashing.
2. Use the 2 right most “VALUES SETTING” keys to select the current day.
3. After selecting the current day press enter to confirm.

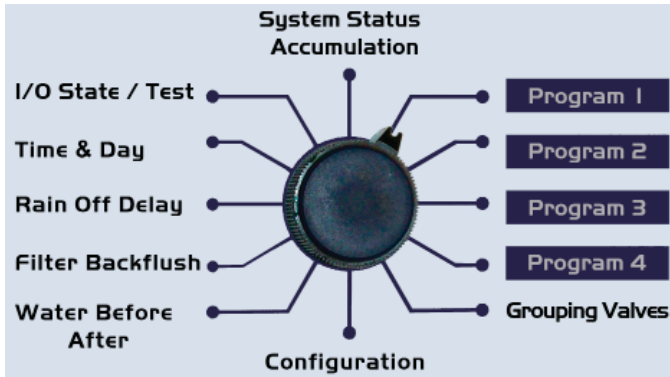


BERMAD Irrigation

4. Creating an irrigation program

4.1 Irrigation days and Start times

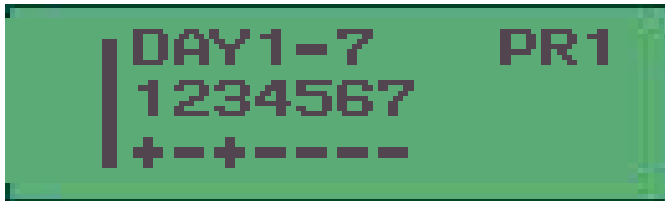
The first step in the controller setup is the definition of time and day.



Turn the rotary switch to program 1, 2, 3, or 4. Pay attention to which program the dial is positioned, this will help in avoiding unwanted changes in other programs.



Click "Irrigation Days" button - The green LED illuminates



Setting Irrigation days On and Off:

1. Press the enter button to start edit mode. The arrows will be replaced with the number of the day which is currently being edited and the cursor will start flashing.
2. Use the flipping keys to move the cursor to the desired day.
3. Use any one of the 4 "VALUES SETTING" keys to change the setting of the selected day –
+ Allows irrigation & fertilization.
- No irrigation day.
4. Repeat steps 2 and 3 until all the days are set.
5. Press enter to confirm the changes.
6. If necessary use the flipping keys in order to reach the next 12 days screen and repeat the process.



Click "Start Times" button - The green LED illuminates



Setting Start Time:

1. Press the enter button to start edit mode. The start time numbers will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the desired start time. In order to change from AM to PM use the left most key of the "VALUES SETTING" it will cycle between the following – 1 AM, 0 PM, 1 PM and 0 AM.
3. After selecting the start time press enter to confirm.
4. Use the blue arrow keys to scroll to the next start time and repeat steps 1-3.



Note: 12:00 AM is not a legal start time.

BERMAD Irrigation

4.2 Water and Fertilizers run time

Define which the participating valves and the water and fertilizer run time.

- Refer to paragraph 5.1 for valves groups
- Time units are set per program and can be changed in the Configuration menu
- Valves and groups operates in sequence, starting with the smallest valve number 1 -> 2 -> 4 etc ...), the same rule apply to groups. In case of a mixed program (valves and groups) the Valves will operate first, in a sequential order, and then the groups.
- **Note:** The total irrigation time should be shorter then the time between starts! Otherwise if a program is still irrigating when the next start time is reached, the start will be ignored! The overall irrigation time can be viewed in the program status screens that display for each part of the program the start and end times.



Click "Water Run Times" button - The green LED illuminates

Setting Water Run Time:



1. Press the enter button to start edit mode. The water run times numbers will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the desired watering run time, the limit for the run time is 99:59 (no matter what the time units are)
3. After selecting the water run time press enter to confirm.
4. Use the flipping keys to scroll to the next valve/group (if necessary) and repeat steps 1-3.



Click "Fertilizer Run Times" button - The green LED illuminates

Fertilizer Pump Run Time setting:



1. Use the flipping keys to reach the desired fertilizer pump number.
2. Click Enter to select.
3. Click Enter button to start edit mode. The fertilizer run times numbers will start flashing.
4. Use the 4 "VALUES SETTING" to select the desired fertilizing run time, the limit for the run time is 99:59 (no matter what the time units are)
5. Click Enter to confirm the run time.
6. Use the flipping keys to cycle to the next valve/group as necessary and repeat steps 1-3.
7. Click Esc key in order to return to the previous screen (fertilizer pump selection screen), choose the next fertilizer pump and repeat steps 1-4 as necessary.



The fertilization method, continuous or proportional sec./min., Can be changed in the configuration mode. Contact your dealer or installer for changes.

The difference between the two methods is in the way the injection will be implemented, continuously or in pulses.

Note: Fertilizer Run Time should be equal or shorter then Water Run Time!

The controller will allow entering a value greater then Water Run Time but will not fertilize after Water Run Time elapsed.

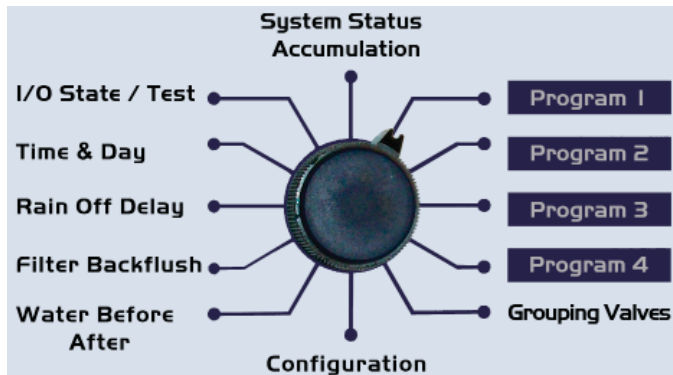
7



BERMAD Irrigation

5. Additional program features

This chapter reviews the additional features available for each program



To set a feature for a specific program, Turn the rotary switch to the relevant program 1, 2, 3, or 4. Pay attention to which program the dial is positioned, this will help in avoiding unwanted changes in other programs.

5.1 % Adjust

The “% Adjust” feature allows the user to change the Water Run Times for all the valves / groups participating in a selected program, without having to re-write the irrigation program. The change is made by percentage, from 0-250%. Default setting is 100%.



Click “% Adjust” button - The green LED illuminates



Setting the % of Run Time:

1. Click Enter button to edit. The percentage adjust numbers will start flashing.
2. Use the three right most “VALUES SETTING” keys in order to set the % of the irrigation run time
3. Click Enter to confirm.

5.2 Stop Time

The “Stop Time” allows a per program definition of a specific time when a program will stop all operation and future start times. This option also works with Daily Cycle as described in section 5.3



Click “Start Times” button - The green LED illuminates



Setting Stop Time:

1. Click the Enter button to edit. The stop time will start flashing.
2. Use the 4 “VALUES SETTING” keys to select the desired stop time. In order to change from AM to PM use the left most key of the “VALUES SETTING”; it will scroll between the following – 1 AM, 0 PM, 1 PM and 0 AM.
3. Click Enter to confirm.
4. To discontinue using stop time, set the value 00:00. The program will resume.



BERMAD Irrigation

5.3 Daily Cycle

Allows the user to define only one start time and a delay between cycles plus a stop time if needed. If a Stop Time is not set, the program will repeat itself, while waiting the delay time before starting the next cycle.

The Daily Cycle feature is activate only If the value in the delay between cycles is different then zero

- Delay between cycles counted from end of one cycle to start of the next.
- If the value in the delay between cycles is different then zero:
 - The Start Times screen shows only 1 start. If more then 1 start time is define, the earliest Start Time will be selected automatically as the relevant Start Time.
 - Number of Cycles feature is enable.

Note: If no number of cycles and stop time is defined the program will continue to cycle until it reaches a no irrigation day.



Click "Daily Cycle" button - The green LED illuminates



Setting delay between cycles:

1. Click Enter button to edit. The delay time will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the desired delay time.
3. Click Enter to confirm.



To set continues cycles without stopping the pump or closing main valve, set the delay between cycles to 00:01

To resume operation with several starts per day enter the value 00:00 in the delay between cycles field.

To enter the desired start times at the Start Times screen, see paragraph 2.1



To set a specific number of cycles:

Using the blue arrow button scroll to the number of cycles screen

1. Click the Enter button to edit. The number of cycles will start flashing.
2. Use the 3 right most "VALUES SETTING" keys to select the desired number of cycles.
3. Click Enter to confirm.

BERMAD Irrigation

5.4 Pause Program

Allows the user to manually pause (freeze) the operation of a selected program for a selected period or endlessly.

Note: a paused program will not perform any irrigation or fertilization during the paused time, if the program is paused for an endless period (99:99) it will stay paused until it is manually released.



Click **"Pause Program"** button - The green LED illuminates



This is an information screen reminding the user how the pause program function.

Click Enter to continue.



Setting Pause Time:

1. Click Enter button to edit. The pause time left numbers will start flashing.
2. Use the 4 "VALUES SETTING" keys to set the pause time.
3. Click Enter to confirm.

The Pause Program starts after confirmation; countdown starts.

To reset pause time, repeat steps 1-3 above.

To resume operation enter 00:00 as pause time. The program will resume operation from the current time and stage of irrigation program.

5.5 Manual Operation

The manual operation allows the user to perform various manual operations with active or non active programs. These operations include – manual start of a full cycle, a partial cycle and single valve in non active programs. Manual stop and skip valve for active programs.



Click **"Manual Operation"** button - The green LED illuminates



Manual Full Start a Program:

1. Click Enter button, the word "Yes" will show flashing.
2. Use any one of the 4 "VALUES SETTING" keys to toggle between Yes and No.
3. Click Enter to confirm.



If the YES option was selected, a full cycle of the selected program will start and the screen will change into the first screen of manual operations for active programs.



Manual Start of Partial Program:

1. Use the blue arrow up key and scroll to the “Manual Start Partial” screen

Manual Start of Partial Program:

1. Use the blue arrow keys to select the valve or group you want to start the cycle from.
2. Click Enter, the word “Yes” will appear flashing.
3. Use any one of the 4 “VALUES SETTING” keys to choose Yes or No.
4. Click Enter to confirm.

If selected YES, the program will start from the valve selected and the screen will change into the first screen of manual operation for active programs.

Note: If the program is set to Daily cycle with delay between cycles, the program will start at the valve selected for this cycle only. The second cycle will start from the first valve set in the original program for a full cycle, until it reaches its stop time or none irrigation day.



Manual Start of a Single Valve:

1. Use the blue arrow keys and scroll to the “Manual Start Single Valve” screen

Manual Start of Single Valve:

1. Use the flipping keys to select the valve you want to activate manually.
2. Click Enter button, the word “Yes” will appear flashing.
3. Use any one of the 4 “VALUES SETTING” keys to choose Yes/ No.
4. Click Enter to confirm.



If the YES selected, the valve will open manually and will work according to its original planning. The screen will change into the first screen of manual operation.



Manual Stop Program:

In case the selected program is active, the following screen will be available when the Manual Operation button is selected



Manual Stop a Program:

1. Click Enter, the word "Yes" will appear flashing.
2. Use any one of the 4 "VALUES SETTING" keys to toggle between Yes and No.
3. Click Enter to confirm.

If YES, the selected program will be manually stopped and the screen will change into the first screen of manual operations for non active programs.



Manual Skip Valve:

When a program is running, use the blue arrow buttons to scroll to the Skip Valve screen



Manually Skip Valve:

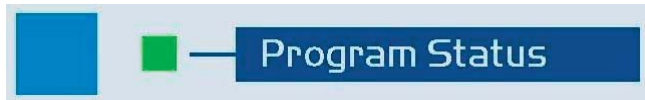
1. Click Enter, the word "Yes" will appear flashing under the currently open valve number.
2. Use any one of the 4 "VALUES SETTING" keys to toggle between Yes and No.
3. Click Enter to confirm.

If YES, the current open valve in the selected program will be skipped and the next valve in the sequence will open. If the program was at its last valve, the program will stop and the screen will change into the first screen of manual operation for active programs.

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5.6 Program Status

The BIC1000 allows the user to review the status of the selected program including the irrigation stage, the currently irrigating valve/group with the left run time, the list of participating valves, total water planned, total fertilization planned (for each fertilizer type) and a review of the start and ending times per each start time. All the screens are display only and are meant to give the user a summary of each program.



Click “**Program Status**” button - The green LED illuminates

Only one of the below screens can appear at a given time, depends on the current status of the program



The program is missing Water Run Times definition.



The program is missing start times or irrigation days definition. The program can be activated manually.



The program is planned to irrigate later today and there are irrigation days, start times and water run times set.



The irrigation days, start times and water run times set for this program, the next irrigation day is in 2 days.



The program is currently running this screen shows the active valve/group, the current stage of the program including irrigation, fertilization, and back flush.



The program is currently paused until the displayed time

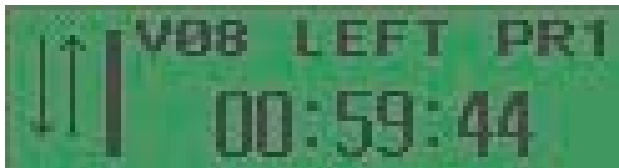


BERMAD Irrigation

Using the blue arrow buttons, scroll to the next screen



The following screen and sometimes several screens below show the valves/groups participating in this program.



How much time left for the currently irrigating valve



For each defined start time, shows the Start and Stop times ("TO" is calculated automatically from the Run Time).



Total water run time, per start including all the valves participating in the program, when there are several start times defined, the number of starts will appear as a multiplier to the total run time.



Total fertilizer run time, per start for the displayed program multiplied by the number of starts defined. There is a separate screen for each fertilizer.

BERMAD Irrigation

6. System Operations

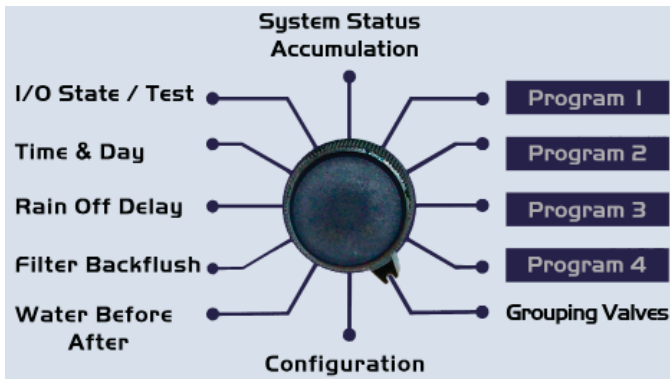
6.1 Groups

Group definition is one of the BIC1000 biggest advantages. The user can group several valves to work simultaneously at any program.

This feature eliminates the need to set the valves in separate programs to allow simultaneous operation of valves.

⚠ If opening / closing of multiple valves at the same time can cause “water hammer” or overload the pump, refer to “special features”, appendix b to set gradually open and close or overlap of the valves in the group.

After a group is defined, it is treated by the irrigation programs as a valve. The group is set with one water run time and one fertilization run time, the only difference is that all the valves of the specific group will open and close simultaneously.

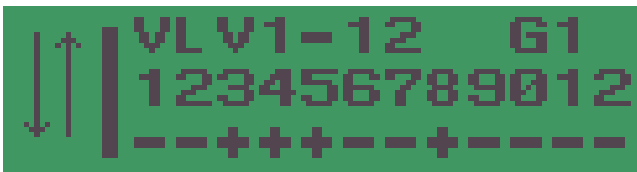


To set groups of valves that will open simultaneously, turn the rotary switch to the Grouping Valves position



Setting Groups:

1. Scroll using the blue arrow keys to reach the group for edit.
2. Click Enter to select the group.



Add / Remove valves from group:

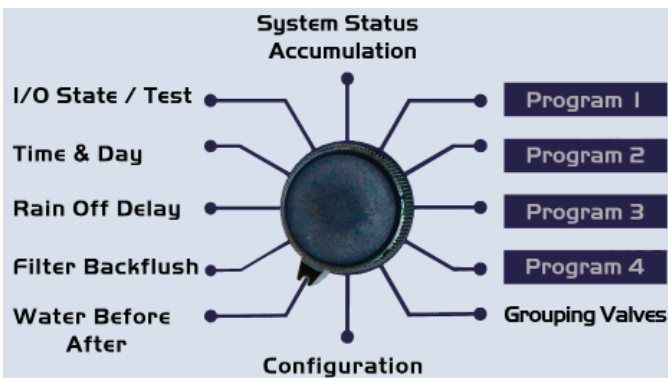
1. Click Enter to edit. The arrows will be replaced with the valve number being edited and the cursor will start flashing.
2. Scroll using the blue arrow keys to reach the desired valve number.
3. Use any one of the 4 “VALUES SETTING” keys to change valve’s status:
 - + Indicates this valve is part of the group.
 - Indicates this valve is not part of the group.
4. Repeat steps 2 and 3 until all the valves are at the desired status.
5. Click Enter to confirm.
6. Click Esc to go to the main Grouping Valve screen
7. To set or edit the next group scroll using the blue arrow keys, select the next group for edit and repeat steps 1- 6.



BERMAD Irrigation

6.2 Water Before/After

The water before/after is another professional irrigation feature offered by the BIC1000 for the benefit of efficient fertilization. There is no need to calculate when to start the fertilization process and when it will be finished. The user simply defines 2 periods of time per valve or group – water before and water after. This will ensure that the fertilization starts when the irrigated block is ready and stops before the end of the irrigation cycle to allow proper flushing of the irrigation system.



Turn the rotary switch to the Water Before After position



Setting Water Before and Water After times:

1. Scroll using the flipping keys to choose between Water Before and Water After screens
2. Click Enter to select.



Setting Water Before:

1. Click Enter to edit. The water before numbers will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the desired water before time.
3. Click Enter to confirm.
4. Scroll using the flipping keys to the next valve or group as needed and repeat steps 1-3 until all the valves/groups have been set with water before time.
5. Press the Esc key in order to return to the previous screen (water before or water after), Scroll to the Water After and repeat steps 1-4.



The water before and water after values are per valve/group, these values will take affect regardless of which program the valve is participating.

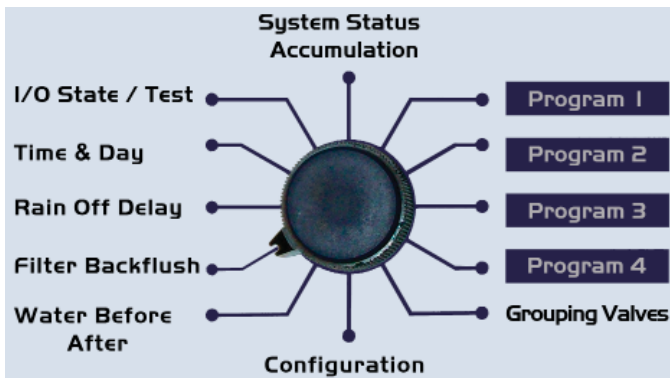
BERMAD Irrigation

6.3 Filter Back flush

The BIC 1000 includes a program for automatic filter(s) back-flushing. The user may set the interval between the flushing cycles, flushing time per station, and the dwell time between the stations. The back-flushing program can be triggered by time intervals or by pressure differential measured by a DP (differential pressure) switch. Regardless of what triggered the flush cycle, the counter of the "Flush by Time" will be reset.

The BIC1000 can use a standard digital PD gauge such as Murphy or an Analog gauge supplied by Bermad.

If an Analog DP switch is installed, the DP definitions and delay are set in System Configuration screen – for further information refer to "Installer Manual".



Turn the rotary switch to the Filter Back flush position

Setting interval between flushes:

1. Click Enter to edit. The flush cycle time will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the **desired** interval between flush cycles.
3. Click Enter to confirm.
4. Scroll using the flipping keys to reach the next screen in Filter Back flush operations.

Setting Flush Time:

1. Click Enter button to edit. The flush time will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the flush time (same time for all the stations).
3. Click Enter to confirm.
4. Scroll using the flipping keys to reach the second screen in Filter Back flush operations.

Setting Pre Dwell Delay:

1. Click Enter button to edit. The flush time will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the flush time (same time for all the stations).
3. Click Enter to confirm.
4. Scroll using the flipping keys to reach the second screen in Filter Back flush operations.

Setting Dwell Time:

1. Click Enter button to edit. The dwell time will start flashing.
2. Use the 4 "VALUES SETTING" keys to select the desired dwell time.
3. Click Enter to confirm.



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The screen has no work order and is for viewing purposes only. The screen indicates if a flush program is defined or not



When flush program is defined this will become an informative self changing screen which shows the time (irrigation time) since the last flush ,while not flushing,



The current status of the filter station during flus cycle: pre dwell, current filter, dwell times and the time left for each stage.



These two screens allow the user to see (and re-set) the accumulated number of flushes, the 1st is for flushes by time and the 2nd is for flushes by DP. The data can be changed by pressing enter and using the "Value setting keys" in the regular manner. Press "Enter" to confirm.



To start or stop the flush cycle manually, scroll to the following screen:

Start flush cycle manually:

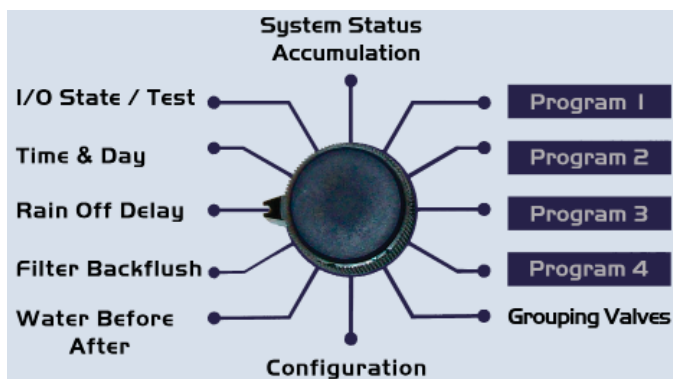
1. Click Enter key to edit, "YES" will appear flashing.
2. Click Enter to confirm
3. To stop, use the 4 "VALUES SETTING" keys to change the "YES" to "NO" and click Enter to confirm.

BERMAD Irrigation

6.4 Rain Off delay

The BIC1000 is capable of halting all activities for a designated time. This option is useful if the user wants to stop the irrigation for the next few days, and resume irrigation automatically after the halt time elapsed.

- The rain delay function takes effect and countdown starts immediately after confirmation. An off day is counted until mid-night including the day it was entered. The value can be changed at anytime.
- To terminate the rain delay, enter 00, and the controller will resume its normal operation.
- A program exiting rain delay mode will wait until the next start time to begin its operation.



Turn the rotary switch to the Rain Off Delay position



This is an information only screen, reminding the user how the Rain OFF Delay function operates.

CLICK ENTER TO CONTINUE



Setting Rain off Delay:

1. Click Enter button to edit. The Rain OFF days remaining will start flashing.
2. Use the 4 "VALUES SETTING" keys to select/change the number of RAIN OFF days.
3. Click Enter to confirm.



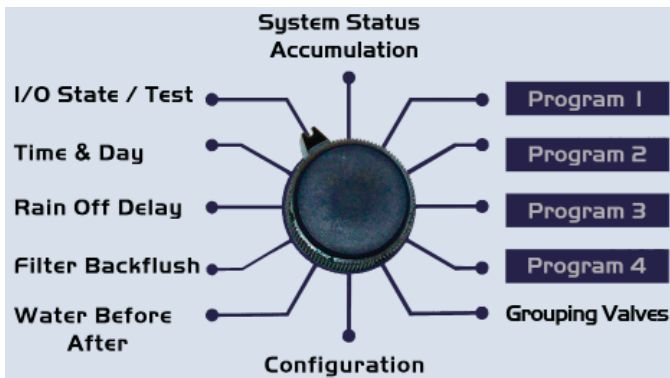
BERMAD Irrigation

6.5 I/O State/ Test

The BIC 1000 allows the user to review the state of all the outputs, manually open/close each one of them and to perform a test cycle.

In each screen there are 12 outputs displayed, the number of screens of I/O state depends on the total outputs available in the system.

- A valve left open manually will remain open until midnight.
- The limitation of the number of outputs starting at the same time is determined by the maximum power draw available and the hydraulic limitations of the irrigation system. Consult your authorized dealer/installer about the maximum number of outputs allowed to be open simultaneously.



Turn the rotary switch to the I/O State / Test position

6.5.1 INPUT / OUTPUT STATE



Open / Close an output manually:

1. Click Enter button to edit. The arrows will be replaced with the number of the output which is currently being edited and the cursor will start flashing.
2. Use the flipping keys to reach the desired output.
3. Use any one of the 4 "VALUES SETTING" keys to open/close an output manually.
 - "M" – The output is currently opened manually.
 - "+" – The output is currently opened by program and cannot be changed.
 - "-" – The output is currently closed and can be opened manually.
4. Repeat steps 2 and 3 as necessary.
5. Click Enter to confirm.



This is a display only screen, giving the user an overview of the inputs state.

Abbreviations:

- WM – Water meter
- DP – Differential Pressure switch
- PR – Pressure switch
- ST – Start contact.

6.5.2 TEST CYCLE

The following two screens allow the user to perform a test of all the outputs available in the system. The outputs will be scanned sequentially; each output will be opened for a pre planned time and then closed.



Setting Test Runtime:

1. Click Enter button to edit. The time will start flashing.
2. Use the 4 "VALUES SETTING" keys to set the required test run time.
3. Click Enter to confirm.
4. Scroll using the down flipping key to reach the next screen of test operations.

Note: The test cycle will be performed on all the valves, regardless if they don't have a water run time set in any of the programs.



Starting test cycle:

1. Click Enter button, the word "Yes" will appear flashing.
2. Use any one of the 4 "VALUES SETTING" keys to select Yes/No.
3. Click Enter to confirm.
4. Test cycle starts.

Display change; asking the user if to stop the test.

To stop the test cycle, repeat steps 1-3 selecting "No" in step #2

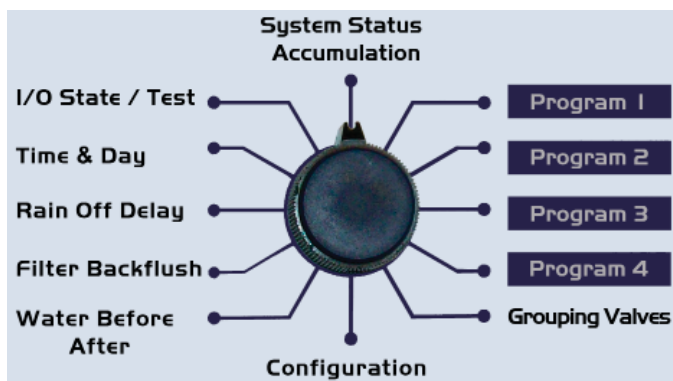
The status of each output can be viewed in the outputs screen/s, the currently open output will be marked with the letter T.

Note: The test cycle can be performed only when none of the programs are running.

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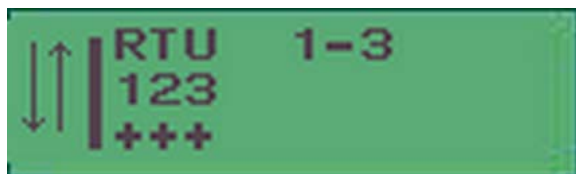
6.6 System Status / Accumulation

The BIC1000 allows the user to perform a quick review of the system. The user can see the general status for all programs, the current flow in the system (if a Water Meter is connected) and the total run time accumulation per each valve or the whole system.



Turn the rotary switch to the System Status / Accumulation position

6.6.1 Radio RTU Status



Display only - The screen shows how many RTUs define in the system and the status of each RTU
“+” - RTU is communicating well with the controller
“-” - No communication.



Using the blue down arrow, scroll to the RTU Errors Logger screen. Click Enter



The RTU number is displayed on the left and the accumulated missed communication cycles is displayed on the right.

- 99 missed communication in a period of about 20 minutes indicates that the RTU needs attention.
- Use the blue arrow keys to navigate between the set RTUs.



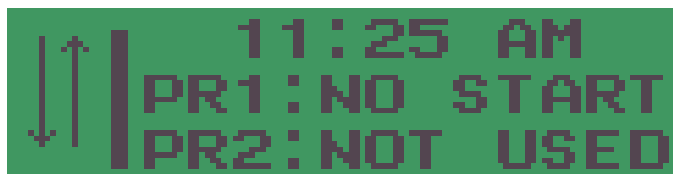
To reset the counter, scroll using the blue arrow buttons to the Clear RTU Logger?

1. Click Enter, “Yes” will be blinking.
2. Click Enter to confirm
3. Click Esc to return to the System Status / Accumulation menu

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6.6.2 PROGRAMS STATUS

The following two screens allow the user to take a quick view at all the 4 programs



NO START – the program have no start times set or no irrigation days defined.

The program can be start manually

NOT USED – the program have no start times or no irrigation days, and no water run times defined.

The program cannot be activated at all.



PLANNED – the program have set irrigation day(s), start times and water run times defined.

The program will run automatically when the first start time is reached.

PAUSE – the program is planned but is currently in pause mode.

6.6.3 SYSTEM FLOW

The BIC 1000 allows the user to view the system flow if a pulse output Water Meter is connected to the “WM” input or a frequency water meter is connected to the Frequency Water Meter card supplied by Bermad.

This data is for information only.



This screen will appear only if during configuration a ratio for the water meter was defined indicating existence of a water meter or if a frequency water meter is installed, the K and offset values must be set in the configuration. For more information; consult your authorized dealer/installer.

6.6.4 TIME ACCUMULATION PER VALVE / SYSTEM

The BIC 1000 allows the user to see the accumulated water run time in the system.

The user can keep track of the actual time each valve was irrigating and the total run time of the whole system.

The user can reset the values to zero.



Using the blue down arrow, scroll to the Accumulation per Valve Water

1. Click Enter

1. Scroll using the flipping keys to cycle between the valves, the water run time accumulation is displayed.

2. To reset the accumulated time

a. Click Enter, the accumulated time will begin to flashing.

b. Use the 4 “VALUES SETTING” keys in order to change the time.

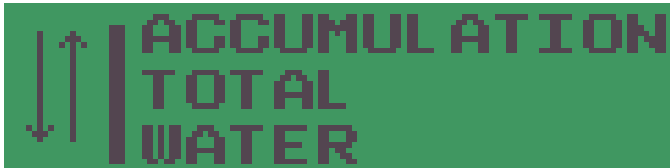
c. Click Enter to confirm.

4. Repeat steps 1-3 as for each valve.

5. Click “ESC” button to return to the previous screen.



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Using the blue down arrow, scroll to the Accumulation Total Water
1. Click Enter



Click the Enter key, the total accumulation time will start flashing.
1. To reset the accumulated time
a. Click Enter, the accumulated time will begin to flashing.
b. Use the 4 "VALUES SETTING" keys in order to change the time.
c. Click Enter to confirm.





Irrigation

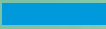
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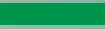
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