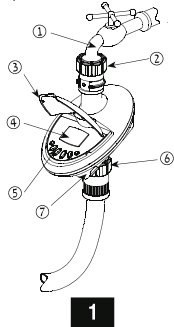## 1. PARTS IDENTIFICATION

HOSE END TIMER

1. Female swivel hose thread faucet/tap adapter
2. Interior filter
3. Top cover
4. Controller display
5. Programming and operation buttons
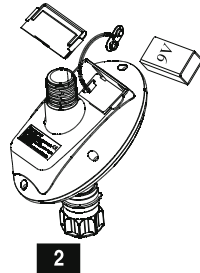6. Male hose thread connection
7. Battery compartment

1

GALCON 9001D-C

Computerized Irrigation Controller

Installation & Operation
I n s t r u c t i o n s

Galcon logo

galcon

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2. BATTERY INSTALLATION

- Hold the controller with the battery compartment facing you
- Remove the battery compartment cover
- Connect 9V battery to the battery connector
- Insert battery and press on battery cover
- Pay attention: when changing the battery, make sure the battery compartment stays dry.

Use Alkaline batteries only.

2

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1. Press ⟳ several times until ☺ appears.
2. Press ⊖. The hour digits blink. Set the current hour with the aid of ⊕ or ⊖.

3. Press ⊖.The minute digits blinks. Set the current minute with the aid of ⊕ or ⊖.

Setting The Day Of The Week
1. Press ⊖ until a blinking drop appears at the top of the display.
2. Set the drop on the current day of the week by pressing on ⊕ or ⊖.
For a 24 hour clock display, press concurrently on ⊕ and ⊖ buttons once the hour digits stop blinking.

5

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3. CONTROLLER/TIMER INSTALLATION

Make sure the filter (washer) is in place, then screw the controller to the faucet/tap by attaching the side with the female swivel hose thread connector to the faucet or hose end, then turn it clockwise (hand tighten only).Connect the controller hose male thread side to your system.
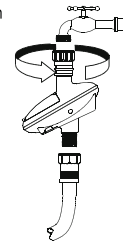
4. IRRIGATION PROGRAMMING

This section contains an example of weekly irrigation program. Simply alter data in the example to adapt the program to meet your irrigation requirements.
The digital controller is programmed with the aid of 4 buttons.

⟲ Programming step – used to select the appropriate programming mode (e.g. clock setting mode).

3

Pressing these buttons again will revert the display back to AM/PM hour display.

PROGRAMMING A WEEKLY IRRIGATION SCHEDULE (SET DAYS OF THE WEEK)
Let's assume that we want to program the irrigation controller to water three times a day, at 8:00 a.m., 1:00 p.m. and 7:00 p.m., for 10 minutes each time, on Tuesday and Friday.

PROGRAMMING DURATION OF IRRIGATION
1. Press ⟲ until 𝕏 appears opposite "Duration".The hour digits blink (0)
2. Press on ⊕ or ⊖ to change the watering duration in the example.
3. Press ⊖.
The minute digits will blink.
Press on ⊕ or ⊖ until the minute digits reach 10.
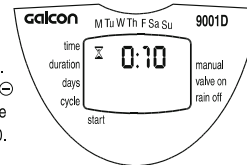
6

⇨ Parameter selection – used to select the parameter to be changed (e.g.hour, minute, etc.) To implement the change, the selected parameter must be blinking.

⊕ Data increment (increase) – raises the value of the selected parameter (e.g. adds an hour)

⊖ Data decrement (decrease) – lowers the value of the selected parameter (e.g. deducts an hour).
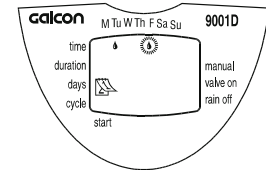
If no changes are implemented, the controller display will always revert to the main screen (clock).
Display digits will stop blinking after 40 seconds. If the last parameter stops blinking before you have completed your programming, press ⊖ to continue the process.
Emergency Irrigation: After inserting batteries if no buttons are pressed,the clock will blink continuously. After 10 minutes, the controller will implement 5-minute irrigation on a 24-hour cycle.

SETTING CURRENT TIME & DAY OF THE WEEK
Setting The Clock
To enable the irrigation controller to operate the irrigation system at the required times, the current time and day of the week must be set as shown below:

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PROGRAMMING IRRIGATION DAYS
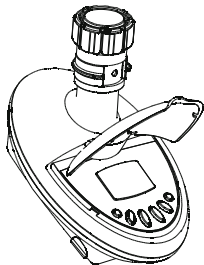1. Press ⟲. ⬡ will appear opposite the word 'Days'. If you are programming the controller for the first time, the word OFF will blink on the display.
2. Press ⊖. ⬩ A blinking will appear under Monday in the upper section of the display. Using ⊖, position the blinking marker under Tuesday, and press ⊕. The marker under Tuesday will stop blinking and another marker will start blinking under Wednesday. Press ⊖ twice more until the blinking marker reaches Friday. Press ⊕ again.
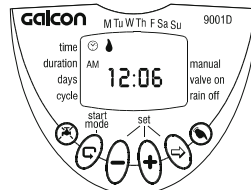

7

SETTING IRRIGATION START TIME/DATE

1. Press ⊙. START I will appear on the display.
   Press ⊙. The hour display will start blinking.
2. Using ⊕ or ⊖ set the start time at 08:00 AM
   (note the AM/PM indicators). Repeat this
   operation for the second irrigation period
   (START II) at 13:00, and for the third irrigation
   period (START III) at 19:00.
3. Press ⊙ . START IV will appear on the
   display. Press ⊙. The hour digits will blink.
4. Press ⊕ or ⊖ until the word OFF appears on the
   display. The fourth irrigation start is canceled.

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SETTING A CYCLICAL IRRIGATION PROGRAM

Let's assume that we want to program the irrigation
controller to open the valve at 10:45 A:M, for period of
1.5 hours, once every three days, starting on Tuesday.
Before setting a cyclical irrigation program you must
clear irrigation days until the word OFF apears.
Setting Irrigation Duration:
1. Press ⊙ until Σ appears near 'Duration'. The hour
   digits blink.
2. Press ⊕ or ⊖ until the hour digit changes to 1.
   Press ⊙. The The minute digits blink. Press ⊕ or ⊖
   until the minute digits change to 30.

SETTING IRRIGATION CYCLE:

1. Press ⊙ until ☁ appears, and the word OFF blinks
   on the display.
2. Press ⊕ until 3 DAYS appears on the display and
   the digit 3 is blinking.

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SETTING IRRIGATION START TIME/DATE:

1. Press ⊙. START will appear and the start time will
   blink.
2. Press ⊕ or ⊖ until the hour displayed reads 10 AM.
3. Press ⊙ once. The minute display will blink.
4. Press ⊕ or ⊖ until the minutes displayed reach 45.
5. Press ⊙ once. The marker under Monday will blink.
6. Press ⊕ once. The blinking marker will indicate
   Tuesday.

Note: in a cyclical program, the irrigation days are liable
to vary from week to week beacause of cycle length.
If you wish to change the irrigation program to a weekly
program you must set the cycle on OFF mode.

10

COMPUTERIZED MANUAL OPERATION

This option operates the valve for the defined irrigation
period. The valve will close automatically at the end of
the irrigation period.
Note that the originally programmed irrigation schedule
will continue to function at the set times. This setting
cannot be implemented when the display is blinking.

Operation: Press ⊙. ♪ will appear next to the word
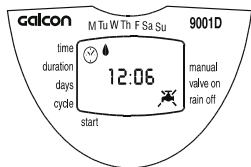'Manual', and ♣ will appear underneath it.

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IRRIGATION CONTROLLER SUSPENSION

This option is used to temporarily suspend irrigation
controller operation, for example, while it is raining. The
irrigation operation schedule remains in the controller
memory but is not implemented until the suspension is
canceled.
Suspension: Press ✴ for 3 consecutive seconds until
the symbol ✴ appears.
Cancel Suspension: Press ✴ for 3 consecutive seconds
to return irrigation system control to the irrigation controller.
The ✴ symbol will disappear.
During suspension, the "Manual"⊙ button will not function.

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BLINKING LOW BATTERY WARNING

A blinking battery icon (⊙) appears on the display
when the batteries are low. At this point, the battery still
contains a limited amount of energy for valve operation.
The battery should be replaced promptly.
If the battery is not replaced, the irrigation controller
will continue to open the valve 8 times according to the
program. It will then suspend the program and OFF will
appear on the screen.
Program data will be retained for 30 seconds while
changing battery.

MISSING DEFINITION IN IRRIGATION PROGRAM

noPr will appear when programming irrigation days (see
Programming a Weekly Irrigation Schedule), if no
irrigation days have been specified. in this case, the
valve cannot be opened during the computerized manual
operation (see Computerized Manual Operation).

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SENSOR CONNECTION

Galcon has developed irrigation controllers with a sensor
connection.
One of the advanced programs in the system is the option
to control the irrigation by using the preventing sensor.
Preventing sensors are ones that prevent the operation
of the system when the relevant conditions come to exist.
For example, if the controller is connected to a rain sensor,
irrigation will operate as long as the sensor is dry. When
it starts raining the sensor will immediately stop the
irrigation from working and sensor light will show.

SENSOR INSTALLATION
Different types of sensors can be installed: Rain sensor,
Temperature sensor etc.
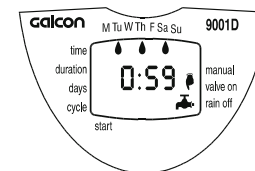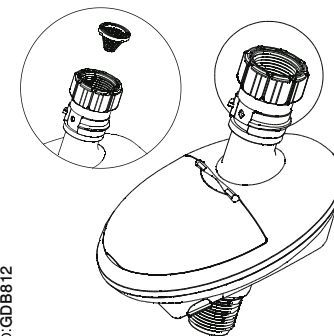The sensor type must be N.C. (Normally closed).
To install:
1. Cut the yellow wire in the middle (do not strip the wires).
2. Join each yellow wire end to the sensor wire with the
waterproof connector.

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5 Maintenance

Remove batteries if the irrigation controller will not be
used for a prolonged period. The controller contains an
internal filter, which has to be removed and cleaned
every few months. If the filter is not cleaned on a regular
basis - it could create problems. The life span of the
battery is at least one year.

Cat.No:GDB812

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