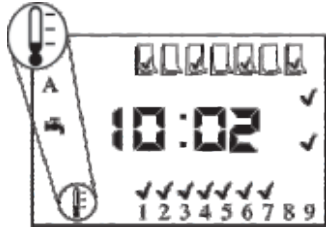


## Rain/Moisture Sensor (Optional)

Sensor is fitted by cutting the yellow wire and connecting to the open ends.



When sensor is activated (open = On) irrigation is suspended for program A & B. Program C is not affected.



Use normally closed sensor.

## WARRANTEE

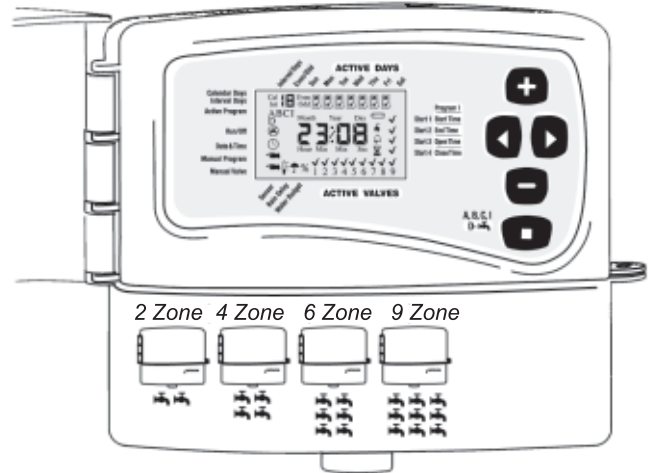
Telbit products are guaranteed to be free from defects in material and workmanship for a period of one year from date of purchase. The warrantee is not valid where equipment is not used and installed in accordance with specifications, damage due to lightning, freezing temperatures, water corrosion or any physical damage. Returns will only be accepted with valid proof of purchase for a period of one year from date of purchase.

Distributor

# Telbit

## Irrigation Controller

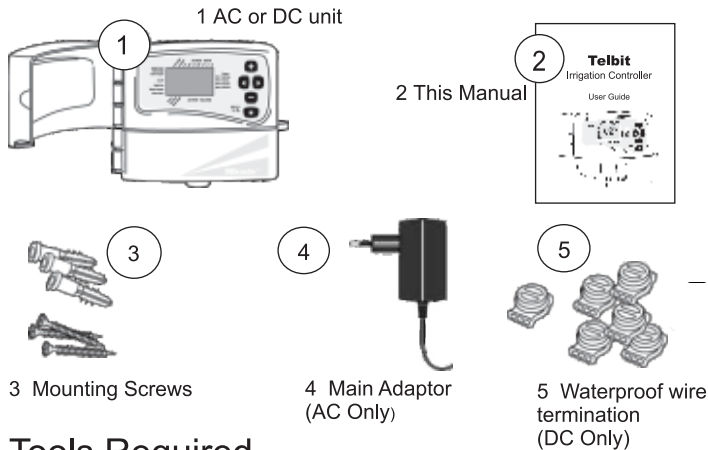
### User Guide



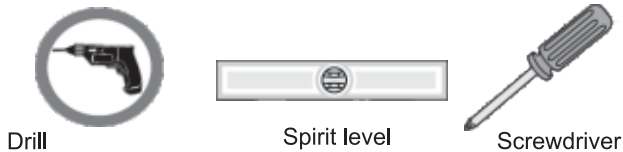
DC - Battery operated using 12V latching irrigation valves. (IP 66)

AC - Mains operated using 24V AC irrigation valves. (IP 65)

## Included in Package



## Tools Required



## Not Included in Package



Battery



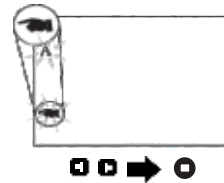
Irrigation valves

### Optional



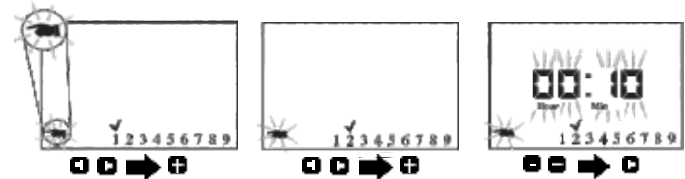
Rain or Moisture Sensor (Normally Closed)

## Manual Program



Press **⏪** **⏩** till the upper **☀** icon is flashing.  
 Press **⏪** to select the program to be executed (A,B or C).  
 Press **⏩** to activate the program.

## Manual Valve



Press **⏪** **⏩** till the lower **☀** icon is flashing.  
 Press **⏩** to activate.

Press **⏪** **⏩** to select the valve to open.  
 Press **⏩** to activate.

Set the hours, then press **⏩** to advance to minutes. Set the minutes. Press **⏪** to confirm. With both hours & minutes flashing press **⏩** to activate.

**NOTE!** To stop irrigation during program or manual valve execution, press **⏪** button.

**NOTE!** Up to 5 valves can be programmed to open, with a maximum of 2 valves being open simultaneously. Remaining 3 will be in queue.

## Rain Delay

Suspends irrigation for a selected number of days during prolonged rainy weather conditions.



Press till the icon is flashing.  
Press to activate.



Press repeatedly to set the number of days irrigation is to be suspended. Press to confirm.

## Water Budget

Used to increase or decrease valve open duration (10% - 200%) to match seasonal changes. Normal duration is 100%.



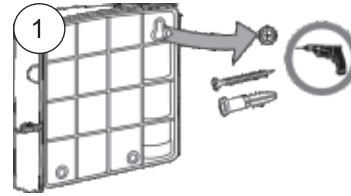
Press until the icon is flashing.  
Press to activate.



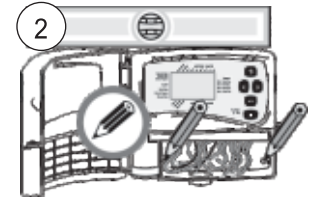
Press to adjust valve open duration.  
Press to confirm.

NOTE! To adjust back to normal valve open duration, set at 100%

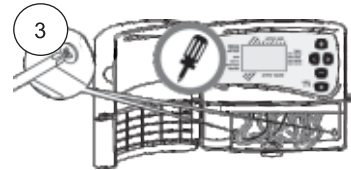
## Installation



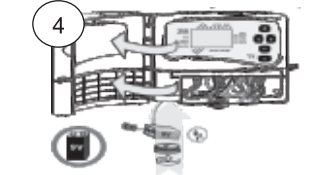
1. Install top screw first and hook unit onto screw



2. Mark bottom screws & drill holes



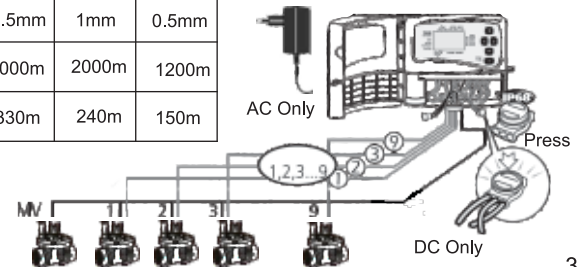
3. Fit plugs and tighten with screws



4. Unscrew cap & insert battery

### Maximum wire size & length

∅	1.5mm	1mm	0.5mm
AC	5000m	2000m	1200m
DC	330m	240m	150m



# Irrigation Programs

Normal Use – Programs A,B & C  
Professional Use – Programs I & D



Daily irrigation up to 4 times (See pg. 8)



Once per day in small duration cycles (See pg.12)



Each valve controlled individually (See pg.13)

## Features



Water budget 10% to 200% irrigation time



Rain delay suspends irrigation for Nr. of days



Rain Sensor skip Irrigation when rain or wet



Permanent program storage even without battery



Lockable with Padlock



IP 66 protection against rain and dust (For DC Model only)



UV Stabilized



Press **+** to activate Open Time. Set hours. Press **▶** to set minutes. Press **⏸** to set seconds. Press **▶** to advance to Close Time.



Press **+** to activate Close Time. Set hours. Press **⏸** to set minutes. Press **⏸** to set seconds. Press **▶** to confirm and back to Valve 1.

Repeat for all valves 2,3 – 9

## Program D

To enable program D, simultaneously press and hold **▶** & **⏸** buttons. D appears on display.

In program D each valve is set up individually with its own irrigation days and start time selection. Press **▶** to select the valve to be set up. Set Active Days as on Page 8 and start times as on Page 10. Set valve open duration for the selected valve only as on Page 10. When done press **▶** button to select the next valve to be set up.

NOTE! When selecting program D, programs A,B,C & I are not available. By switching to program D all other programs (A,B,C & I) are erased. To switch back from program D to ABC simultaneously press and hold **+** & **▶** buttons till ABC appears.

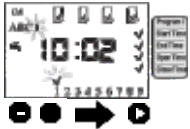
# Program I (Pulsed Irrigation)

To enable program I simultaneously press & hold & buttons. ABCI appears on display. Press until I icon is displayed.

Active days works the same as A, B & C, but start times and valve duration is set differently. Each valve is set with its own parameters:

- a) Start time – Irrigation starts i.e. 8:00 (hh:mm)
- b) End time – Irrigation ends i.e. 17:00 (hh:mm)
- c) Open time – Valve open duration i.e. 30 seconds (hh:mm:ss)
- d) Close time – Duration for no-irrigation i.e. 1 minute (hh:mm:ss)

Example: At 8:00 in the morning valve 1 opens for 30 seconds, closes for 1 minute, opens for 30 seconds, closes for 1 minute and repeats till 17:00.



Select the valve nr. to set. Press to activate.

Set Start Time hours. Press and set minutes. Press to advance to End Time.

Press to activate End Time and set hours. Press and set minutes. Press to advance to Open Time.

# Display Functions

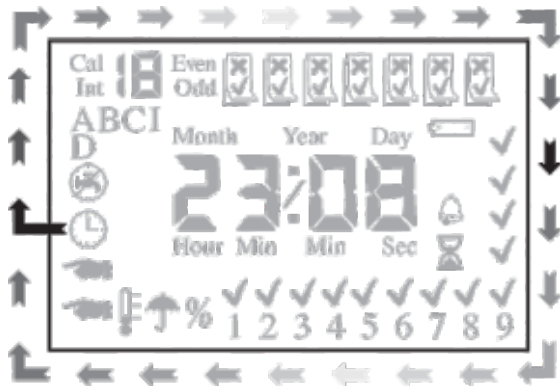
The main display screen is divided into several sections:






- ACTIVE DAYS:** Shows a calendar grid with days of the week (Sun-Sat) and icons indicating which days are active for irrigation.
- ACTIVE VALVES:** Shows a grid of 9 valves with checkmarks indicating which are active.
- Calendar Days / Interval Days:** Shows the current date and time (23:08) and the selected program (D).
- Manual Program / Manual Valve:** Shows icons for manual control and valve indicators.
- Sensor / Rain Delay / Water Budget:** Shows icons for sensor status, rain delay, and water budget.

Program I  
 Start 1- Start Time  
 Start 2- End Time  
 Start 3- Open Time  
 Start 4- Close Time





- Controller is on
- Controller is off
- ABCI** Selected Program
- D** Weekday Indicator
- Irrigation Day
- No Irrigation day
- Select 1 of 4 start times
- Valve indicator to set valve open time
- Manual valve and program operation
- Adjust valve open time as percentage of programmed time
- Set number of days to suspend irrigation
- Rain/Moisture sensor activated, suspends irrigation
- Battery low (Flashing=Empty)
- Mains failure (AC only)
- Fault, check wiring & valves
- Controller opening valve
- Set clock and calendar

# Navigation



-  Increment value of selected parameter or enable selected function
-  Decrement value of parameter or disable selected function
-  Move to next parameter in direction of arrows
-  Move in opposite direction
-  Switch between programs (A,B,C,I) or valves (D)

## Set Time & Date

Press  &  buttons to navigate to the  icon.  
 Press  button to activate.

NOTE! To set a valve not to irrigate, adjust the duration to be 00 hours and 00 minutes.

NOTE! The maximum nr. of valves (1-9) visible on the display depends on the number of zones 2,4,6 or 9.

## Switch between programs A,B & C



Each program needs to be set individually.

Press  to select between programs.

NOTE! To disable programs D & I and only have A, B & C, press and hold  &  buttons.

NOTE! Main Valve (MV) opens automatically before the first valve opens, and closes again when all valves are closed.

## Start Times



Select up to 4 start times per day. Select start time 1. Press **+** to activate.



Press **-** **+** to set hour to start. Press **▶** to advance to minutes.



Press **-** **+** to adjust minutes to start. Press **▶** to confirm and advance to next start time.

Repeat for start times 2,3 & 4

NOTE! The controller sorts the start times automatically. If you scheduled start time 2 earlier than start time 1, start time 2 moves to position 1, and start time 1 to position 2.

## Valve Open Duration



A ✓ above the valve nr. indicates it is selected. Move to the valve to be set. Press **+** to activate.



Press **-** **+** to set the hourly duration the valve will be open. Press **▶** to advance to minutes.



Press **-** **+** to set the minutes duration the valve must be open. Press **▶** to confirm and move to the next valve.

Repeat for all valves up to 9.



Press **-** **+** to set the month.  
Press **▶** to move to Day.



Press **-** **+** to set the day.  
Press **▶** to move to Year.



Press **-** **+** to set the year.  
Press **▶** to move to 12/24h.



Press **-** **+** to set 12/24h mode.  
Press **▶** to move to Hours.



Press **-** **+** to set the hours.  
Press **▶** to move to Minutes.



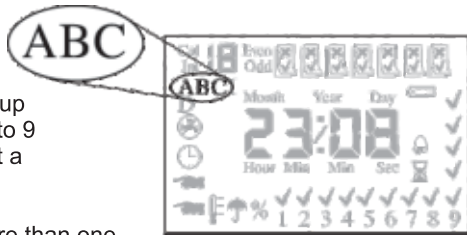
Press **-** **+** to set the minutes.  
Press **▶** to confirm and go out of Set Date & Time.

NOTE! Battery is used to keep clock running.  
Program settings are **NOT** lost in case of battery removal.

Battery replacement: After disconnecting discharged battery, replace with new one within 30 seconds to keep date & time settings.  
Irrigation Controller is now ready for programming.

## Programs A, B & C

Selected days with up to 4 start times, up to 9 valves, one valve at a time.



NOTE! To open more than one valve at the same time, use same start time in B and/or C.

## Operation Modes

CAL - Calendar days Sun, Mon, Tues, etc

INT - Interval days

Every 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> day etc. Optionally limit to Odd or Even days (Odd = 1,3,5 Even = 2,4,6) and select non-irrigation days.

## Calendar Days



Press **+** or **-** to select CAL. Press **▶** to Advance to weekdays.



Press **+** to select day as irrigation day. Press **▶** to advance to next day. Press **◀** to go back to previous day.



For a non-irrigation day icon should be left blank. To deselect a previously selected irrigation day press **-**.

## Interval Days



Press **+** or **-** to select INT. Press **▶** to advance to interval Counter.



Adjust to required interval days from 1-19 maximum. NOTE! 1 indicates 1 day of non-irrigation.



Select to irrigate only on ODD or EVEN days. Select ODD/EVEN for any day.



Select the first week day irrigation should start. Press **+** to activate.



Select one or more non-irrigation days. Press **-** to select. No irrigation on disabled days.