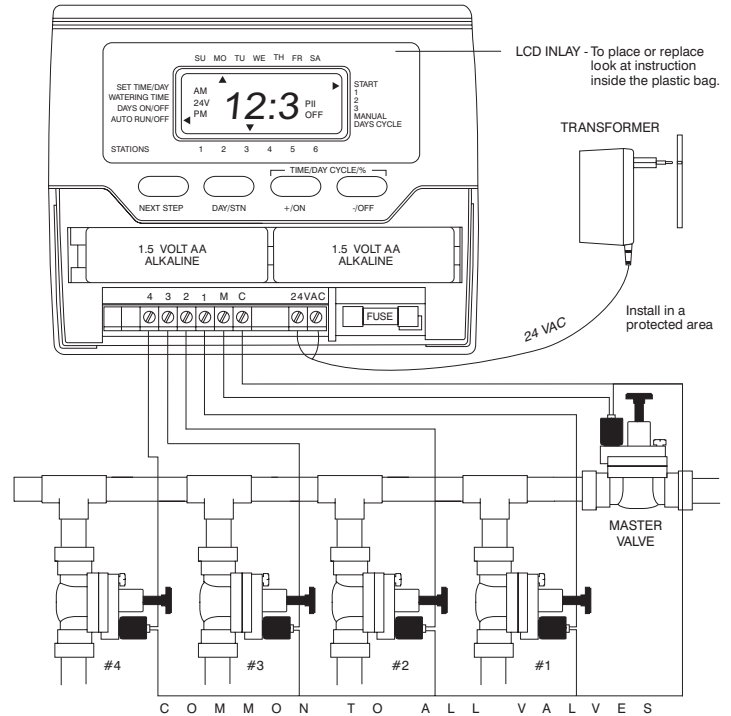


minitec 2,4,6,8 station Dual Program Controller

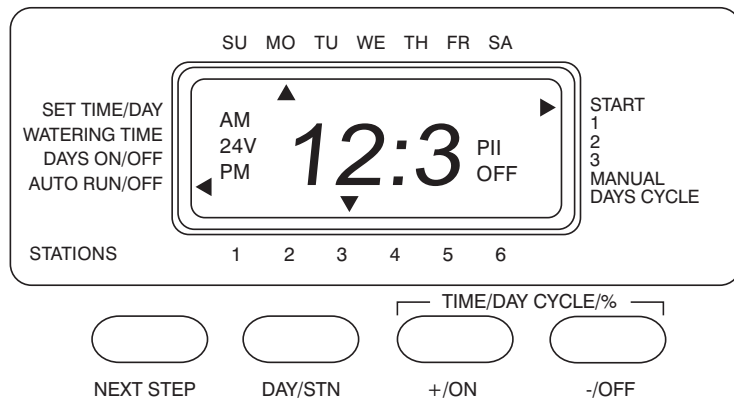
INSTALLATION INSTRUCTIONS

Remove the lower cover. Place the unit on the wall using one slot and one fixed hall inside the battery slot. Connect the solenoid wires to the terminal block. One wire from each solenoid should be connected to C-Common. The other wire from each solenoid to its respective Number on the terminal block. Connect the Transformer wire to the terminal block marked 24VAC.

Only after all your wiring is done and checked, connect the 2 x 1.5 volt AA Alkaline batteries. The display will now be on. Plug the Transformer to power outlet.



IRRIGATION PROGRAM



Irrigation program consists of 3 parameters:

- 1 WATERING TIME Watering duration for each station
- 2 IRRIGATION DAYS Weekly calander or Days Cycle
- 3 START TIMES You can program up to 3 starts per day.

Each station can be assigned to a program by entering watering duration in that program.

In a cycle all stations belonging to a program will open sequentially, one after the other.

Both programs are independent and could run simultaneously.

Stations can be assigned to both programs.

PROGRAMMING STEPS

NOTE If you press **+ / ON** or **- / OFF** continuously, the digits will advance quickly.

SET TIME/DAY

If the ◀ is not on SET TIME/DAY, Press NEXT STEP until ◀ lines up with SET TIME/DAY.

Press **DAY/STN** until arrow points to current day.

Press **+ / ON** or **- / OFF** to set current time.

Press **NEXT STEP** to enter WATERING TIME.



WATERING TIME PI (Program 1)

Enter watering time to all stations you wish to assign to this program. Each station can be programmed to have different watering time.

Press **+ / ON** or **- / OFF** to set your watering time.

Press **DAY/STN** to select your next station in this program.

Repeat for all the stations.

Press **NEXT STEP** to advance to next programming step.

DAYS ON/OFF PI

You can either select the DAYS OF THE WEEK you wish to water or select DAYS CYCLE.

Arrow pointing under SU is flashing.

Press **+ / ON** for the days you wish to water.

Press **- / OFF** for the days you wish to skip irrigation.

DAYS CYCLE



Press **DAY/STN** until arrow points to days cycle [0 0].

Press **+ / ON** or **- / OFF** to select your days cycle.

Both digits will advance together.

The right digit will display the selected days cycle while the left digit will display the remaining days to irrigation. If 1 is selected = Every day, 2 = Every other day, 3 = Once every 3 days and so on.

Press **DAY/STN** if you wish to return to Day of the week.

Press **NEXT STEP** to program the start time.

START 1 PI

Press **+ / ON** or **- / OFF** to set the time.

Press **NEXT STEP** to set next start time.



At the time you selected, the 1st station of prog. 1 will start watering. Other stations in this program will operate sequentially, one after the other, automatically.

To enter program 2 (PII) Press **NEXT STEP** and repeat from * to **.

To skip program 2, Press **NEXT STEP** continuously until arrow points MANUAL.

MANUAL

NOTE To get to MANUAL mode from any position, press NEXT STEP continuously.

Two MANUAL modes are available:

Manual start per station (Only that station)

Press **+ / ON** to open the station. (Arrow pointing to the station number will stop flashing)

Press **- / OFF** to turn off the station.

Press **DAY/STN** to select your next station.

If you leave the station ON, it will close after its programmed watering time.

First priority is watering time program 1, 2nd priority is watering time program 2, and if no watering time was programmed, will open for 2 minutes.

After the station is closed, the controller will skip to AUTO mode.

Press **NEXT STEP** to select next manual mode.

MANUAL (Cont.) Manual start per program - Semi-Auto

In this step, you can turn on all the stations programmed in program 1 or program 2.
The valves will open in sequence.
The 1st programmed station in this program will flash.

Press **+ / ON** to start the cycle and **- / OFF** to terminate it.

Press **NEXT STEP** to select program 2, repeat as in prog.1.

Press **NEXT STEP** to advance to AUTO RUN mode.

**AUTO RUN/OFF
(OFF)**

Will display Time & Day, open station, power failure and OFF.

Press **- / OFF** in **AUTO RUN** mode to stop irrigation.

Press **+ / ON** in **AUTO RUN** mode to resume irrigation.

**WATER BUDGET
PI & PII**

When you wish to either increase or decrease watering time for ALL Programmed stations you can do it by using the Percentage Scaling method.

Your current setting of WATERING TIME represent 100%.

You can increase your watering time in increments of 10%, ie, 110%, 120% and up to 200%.

200% will double your current watering time.

You can decrease your watering time in increments of 10%, ie, 90%, 80% and down to 10%.

50% will reduce by half your current watering time.

You can get to WATER BUDGET position from any "WATERING TIME" -

Press **DAY/STN** until you pass all station and display show 100 and the active stations in that program are flashing.

Press **+ / ON** to increase and **- / OFF** to decrease the percentage.

EX: If stations in PI are set to 10 minutes runtime and you increase percentage to 150%, they will now run 15 minutes each.

Press **NEXT STEP** to skip to MANUAL mode.

IMPORTANT INFORMATION

- Batteries: Please use best quality Alkaline batteries. Replace just prior to each irrigation season. Replacing batteries requires re-programming the controller.
- Auto Return: If within 3 minutes you do not touch any button, the controller will automatically return to Auto mode.
- Quick Digit advance: If you Press **+ / ON** or **- / OFF** continuously, the digits will advance quickly.
- Reset display back to OFF: If you press **+ / ON** and **- / OFF** simultaneously and hold for few seconds, the digits displayed will reset back to OFF.
- Program Erase - Total Reset: In Auto Run mode, press all 4 buttons, simultaneously until all elements of the display will appear.
- Start Time Stacking: In case of overlap of two or more start times, the controller will automatically delay the start time until previous cycle is completed.

BATTERY REPLACEMENT

Replace the 2 x 1.5 VOLT AA Alkaline batteries once a year.

NOTE Make sure you disconnect the transformer before replacing the battery. Connect it again after the new battery was connected.

POWER FAILURE INDICATION

If a command to open a station is initiated during power failure, the "24V" on the display will start flashing. The flashing will stop when the next command to turn on any station is initiated while power is on. If the fuse is blown "24V" will also flash. Replace it with a 0.75 amp. fuse.

SOLENOID RATING

The solenoid valve should be rated: 24VAC, 0.35 Amps inrush max. Only 1 solenoid valve can be connected to each station.

COPYRIGHT AND TRADEMARKS

The copyright in this document is held by I.T. Irrigation Systems Ltd. All material provided on this documents protected under United States copyright laws and international copyright laws and treaty provisions. Except as expressly provided herein, none of the materials provided on this documents may be copied, distributed, republished, reproduced, downloaded, displayed or transmitted in any form for commercial use without the prior written permission of I.T. Irrigation Systems Ltd. Individual visitors of this document permitted to download or print one copy solely for their personal, non-commercial use, provided that they do not modify the materials and that they retain all copyright and other proprietary notices contained in the materials. This permission terminates automatically if you breach any of the terms and conditions contained herein. I.T. Irrigation Systems Ltd. does not grant any express or implied right to you under any patents, trademarks, copyrights or trade secret laws. The trademarks, logos and service marks (collectively referred to as "Trademarks") displayed on this document are registered and unregistered Trademarks of I.T. Irrigation Systems Ltd. and no trademark license either express or implied is granted by I.T. Irrigation Systems Ltd. You do not have any right to use any Trademark displayed on this document without prior written permission of I.T. Irrigation Systems Ltd. Trademarks are one of our most valuable business assets. In the event of unauthorized use or misuse of its Trademarks I.T. Irrigation Systems Ltd. will pursue its legal remedies without delay.