POPE

DIGI MAX

Automatic Controller

Operating Instructions
Thank you for purchasing this advanced, highly featured Pope DigiMAX controller. The DigiMAX is the most versatile, highly featured and economical controller series on the market today.

The following pages will describe the features of the DigiMAX and give you clear directions for use and getting the most out of your new controller.

About the DigiMAX Memory
This controller is equipped with "on board" back up battery that will keep the program memory for a few years in case power is not available. If you wish to program the controller without connecting it to AC power, install the 9 volt alkaline battery. The 9 volt battery will turn on the display. To turn on the programming guide light, press one of the keys (any key), the programming guide light will turn off after 10 seconds if no key is pressed.

Automatic Circuit Breaker
The DigiMAX controller is equipped with an automatic circuit breaker making fuse replacement a thing of the past. A short circuit in the field wiring or the valve solenoid will cause the automatic circuit breaker to open and stop electrical output. The “24V” will flash and the red “AUTO” light will blink. If the fault isn’t corrected by the next start time, the controller will initiate another watering cycle and advance through the set stations until it encounters the station with the electrical fault. The program will again terminate and display the blinking “24V” icon and the blinking red “AUTO” light. To verify that there is a short circuit problem, go to the manual mode and start the station. If it doesn’t start or turns off before the set run time, troubleshoot the field wiring and valve solenoid.

Power Failure Indication
During a power failure the “24V” will start flashing, if a 9 volt battery is connected. "24V" will stop flashing as soon as power resumes.

Electrical Specifications:
Input power:

240 VAC, 50 Hz (Plug-in transformer , 0.8 amps)

Station Output Power:
24 VAC
6 VA (0.25 amps) per station maximum
6 VA (0.25 amps) pump start/master valve
12 VA (0.50 amps) total load

Note: Controller is designed to operate only one solenoid per station.
INSTALLATION INSTRUCTIONS

Remove the lower cover. Place the unit on the wall using the top screw slot. Level the controller, and then insert screw into the lower screw hole under the terminal block. Connect the solenoid wires to the terminal block. Connect one wire from the solenoid to its respective station number on the terminal block and the other wire to the C-common terminal. Connect the transformer wires to the 24 VAC terminal.

**Note:** A 9V DC battery must be installed for proper operation of the controller.

The 9 volt battery compartment is located on the right side of the case. It is marked “Push”. Push it to release the battery drawer. The 9 volt battery powers the LCD display in the absence of AC power and allows “Arm Chair Programming”. Program information is retained during power outages by an onboard lithium battery.

**NOTE:** Only after all the wiring is completed and checked should the transformer be plugged into AC power.
To connect a rain sensor, remove the jumper wire from the sensor terminal and connect one wire of the Rain Sensor to the C-common terminal and the other wire to the N.C. (normally closed) terminal. When using the Toro Rain Switch, use the two wires marked A and B (see instructions with switch). As soon as the Rain Sensor contacts change from the N.C. position to the N.O. (normally open) position, irrigation will be suspended. Irrigation will resume as soon as the Rain Sensor dries and its contacts return to the N.C. position.

When irrigation is suspended due to the Rain Switch, the display shows: OFF 🌵
PROGRAMMING:
It is recommended to press the RESET button to clear the memory.

Press NEXT to advance to SET TIME/DAY

Program Position: SET TIME/DAY

Set the current YEAR, MONTH, DAY and TIME.
Set the YEAR with +/-ON or -/OFF
Press
Set the MONTH with +/-ON or -/OFF
Press
Set the DAY with +/-ON or -/OFF
Press
Set the TIME with +/-ON or -/OFF
Press if you wish to go back to YEAR setting.

NOTE: If you press and hold either +/-ON or -/OFF continuously, the digits will advance quickly.

Press NEXT to advance to RUN TIME

Program Position: RUN TIME
This controller has two independent programs: A and B. Select the stations you wish to have for each program. Program A is the first program. You can assign stations to a program by entering RUN TIME for these stations. Unselected stations in a program will remain OFF.

Press PROG to select the program to be set.
Press +/-ON or -/OFF to set the desired RUN TIME.
Press to advance to next station.
To RESET Run Time back to "OFF": Press BOTH +/-ON and -/OFF for a few seconds until OFF is displayed.
To disable the MASTER VALVE from working in this program:
Press until "M" starts flashing. The display show "On".
Press -/OFF to disable the MASTER VALVE. Press +/-ON to resume its operation.
Press NEXT to advance to WATER DAYS.
Program position: WATER DAYS

There are 4 choices for your days selection:

CAL - Select days of the week. (Default all days are ON)
Int - Select days interval, 1-7 days, and the 1st day to start the interval
Odd - Irrigation on Odd days (31st day is skipped)
En - Irrigation on Even days.

In CAL position: Press +/-ON for operating day or -/OFF to skip the day.
Press Next for Interval selection or NEXT for next programming step.

In "Int" position: Press +/-ON or -/OFF to select your days interval.
Press Next and then either +/-ON or -/OFF to select the 1st day to start the watering.

In Odd position: Press -/OFF to select Even days.
NOTE: 31st day of month is skipped in ODD water days.

In Even position: Press +/-ON if you wish to go back to CALENDAR.
Press NEXT to advance to START TIMES.

Program position: START TIMES
3 start times per day are available for each program.

Press +/-ON or -/OFF to set the first start time.
Press Next for start #2 and #3 and repeat with +/-ON or -/OFF to set the time.

To RESET Start Time back to "OFF": Press BOTH +/-ON and -/OFF for a few seconds until OFF is displayed.

After setting start times, you can Press PROG to start entering data for the next program.
The program position will automatically move back to the RUN TIME position of the next program.

If you press NEXT you advance to the “% Scaling” position.
Program position: % SCALING (Seasonal adjust)
In this program position, you can increase or decrease the RUN TIMES of all stations in a program by percentage scaling from 0% (program OFF) to 200% in 10% increments.

Press PROG to select the program you wish to scale.

Press +/-ON or +/-OFF to change adjustment from 100%

The initial RUN TIME set represents 100%. Scaling increases or decreases this initial run time. The new adjusted run time will be displayed whenever the program is operating. The “%” icon will also be displayed whenever that program is operating or being reviewed to alert you that the run time has been adjusted from the initial setting.

To set a program to "OFF"
If you wish to stop irrigation of a program, set percentage scaling to 0%. The display will show that program is OFF. To resume normal operation of that program, advance to "% SCALING" and increase the percentage to your desired value. Increasing to 100% will set RUN TIME to its original value.

Press PROG to select the program.

Press NEXT to advance to MANUAL.

Program position: MANUAL
In this MANUAL mode, you can set RUN TIME for each of the stations you wish to start manually. Stations will start in sequence.

Press +/-ON or +/-OFF to set the station RUN TIME.

Press  to advance to next station.

To turn ON the 1st station in the sequence:
Press NEXT to AUTO-RUN position.

Press -/OFF (in AUTO-RUN position) to turn OFF the sequence.

All stations with RUN TIME will be displayed. Operating stations will flash and the display will show the remaining RUN TIME of the station (count down).

Press NEXT to advance to SEMI-AUTO.
Program Position: SEMI-AUTO
In this dial position you can start a sequence of all stations programmed in the selected program.

Press PROG to select the program you wish to operate.

Display shows all the stations programmed in the selected program

Press if you wish to select another station as the 1st station.

Press +/-ON to turn ON the sequence.

Press to skip from a working station to the next one in the sequence.

Press +/-OFF to turn OFF the sequence (before it is completed).

The display will show the remaining RUN TIME of each operating station.

Press NEXT to advance to SYSTEM OFF.

Program Position: SYSTEM OFF

Three main functions can be performed in this program position.

TURN ALL PROGRAMS OFF - Irrigation is suspended for all programs. It will remain suspended as long as the programming guide light stays in this position.

Press to set next function OR Press NEXT to advance to AUTO-RUN

RAIN DELAY - Irrigation is delayed for the selected number of days.

Press +/-ON or +/-OFF to select the number of days.

The display will show the umbrella, DLY=DELAY and the day the irrigation will resume (Flashing).
PROGRAM ERASE – You can erase all data entered into a program. This can be done for a selected program.

Press PE to select the program you wish to erase.

Press +/-ON to erase. PE will flash 5 times.

Press NEXT to advance to AUTO-RUN.

Program position: AUTO-RUN

This position is used to provide information regarding the operation as well as for reviewing all data stored in the irrigation programs. Following is the list of information you can observe on the display:

- Current Time & Day
- A program(s) in OFF position
- Information regarding the operating station: program, station and remaining run time
- Active Rain Delay
- If irrigation is suspended due to SENSOR input
- Power failure indication

To turn OFF the working cycle, press NEXT to SEMI-AUTO and press -/OFF. If you wish to review what data you have in each program:

Press PE to PROGRAM REVIEW. Press PROG to select the program.

Press +/-ON to start the review. Press +/-ON to scroll through the review.

If you wish to have a complete status report on the operating station:

Press PE to STATUS.

Remaining station RUN TIME will be displayed as well as the operating program, station number and active start time.

Press PE to return to AUTO-RUN position.
DigiMAX Custom Watering Plan
2 Program Controller

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
<th>Program A Duration</th>
<th>Program B Duration</th>
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<tbody>
<tr>
<td>1</td>
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Electromagnetic Compatibility

Domestic: This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. This product has been type tested and designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the irrigation controller with respect to the receiver.
- Move the irrigation controller away from the receiver.
- Plug the irrigation controller into a different outlet so that the irrigation controller and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

GUARANTEE

This product is guaranteed to be free from defects in material and workmanship. Our obligation under this guarantee is limited to the repair or replacement at our option of the product from one year from the date of purchase. You must keep your receipt to make a claim under these warranty conditions.

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