

## Technical Specifications

Recommended operating pressure: 150kPa to 1000kPa.  
Maximum operating pressure 1000kPa. In higher pressure areas use a pressure reducer from the tap.

Recommended operating temperature: 4° to 60° C.

Batteries: 2 x AA Alkaline batteries only

Water Source: Use with cold, mains connection water only.

This product is not suitable for use;  
- if your water pressure exceeds 1000kPa;  
- if you use a bore or unfiltered water;  
- if you use any kind of pump to draw water;  
- for commercial applications; or  
- if it is likely to be subject to more than 'seasonal' amounts of water  
(eg. In the path of sprinklers or other emitters, or with a leaking tap.)

### Guarantee

The Pope Digital Set has a 12 month warranty against defects in materials and workmanship when used with mains water supply in normal home garden applications. Our obligation under this guarantee is limited to the repair or replacement at our option, of the product within one year from the date of purchase.

Use of this product outside of the technical specifications and disassembling of this product will void the warranty.

**TORO** **Toro Australia**

Pope® is a Registered Trademark of  
**Toro Australia Pty Ltd**  
53 Howards Road, Beverley SA 5009

# POPE DIGITAL SET AUTOMATIC TAP TIMER



## OWNERS MANUAL

Congratulations on purchasing the Pope Digital Set Automatic Tap Timer.

This manual contains all you need to know to install and program your Pope Digital Set Automatic Tap Timer.

Please take a moment to read through the manual in its entirety before starting to program your tap timer.

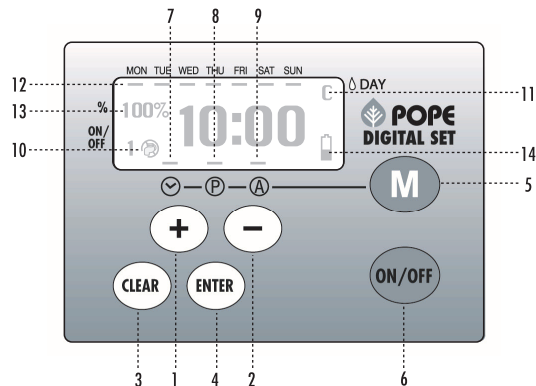
### Contents

Understanding Your Digital Set Automatic Tap Timer .....	1-3
How to Install .....	4
Programming Instructions .....	4-7
Manual Operation .....	9
Rain Delay .....	9
Replacing the batteries .....	10
Trouble Shooting .....	11

## Understanding your Digital Set Automatic Tap Timer

### Key Pad

1. **+** used to increase the watering duration, time, move between days etc
2. **-** used to decrease the watering duration, time, move between days etc
3. **CLEAR** used to delete a set program
4. **ENTER** press to confirm selected days, time, watering duration etc
5. **M** **MODE** – used to select between clock **✓**, programming mode **P** and automatic mode **A**
6. **ON/OFF** used to turn watering on or off when programming or to set manual watering. Also used to turn rain delay on and off when pressed and held for 5 seconds



### Display Panel

**Functions** – All functions can be selected by pressing the Mode button **M**


7. **✓** **CLOCK** - Select this function to set the current time or to see the current time. When selected a small bar will appear above the **✓** on the display panel.
8. **P** **PROGRAMMING** - Select this function to set or change stored programs. When selected a small bar will appear above the **P** on the display panel. You can set up to 10 watering programs. The numbers 1 through 10 appear at the bottom left of the display screen when in programming mode.

**Note:** If the timer is left in programming mode for 1 minute without any selections made, the timer will automatically return to automatic mode.

9. **A** **AUTOMATIC** - When this function is selected watering will take place according to the programs set by the user. A small bar will appear above the **A** when the timer is in automatic mode.

### Display Panel

10. **ON/OFF** - Shows when watering is/is not in progress. This is shown by the following symbol's

 **Watering ON** – displays when watering is in progress and when selecting watering days for calendar watering

 **Watering OFF** – displays when watering is not in progress and when selecting non watering days for calendar watering.

## Trouble Shooting

PROBLEM	REASONS	SOLUTIONS
<b>No LCD</b>	<ul style="list-style-type: none"> <li>Batteries flat</li> <li>Batteries incorrectly installed</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> <li>Re-install batteries</li> </ul>
<b>Not watering at scheduled times</b>	<ul style="list-style-type: none"> <li>Batteries flat</li> <li>Programs lost during battery replacement</li> <li>Program start times and duration may be incorrectly set</li> <li>Rain delay has been activated</li> <li>Tap is turned off</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> <li>Re-program timer</li> <li>Check times and re-enter if required</li> <li>Turn rain delay off</li> <li>Turn tap on</li> </ul>
<b>Watering session not being turned off by timer</b>	<ul style="list-style-type: none"> <li>Batteries failed during watering session</li> <li>Batteries changed during watering and programs lost</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries</li> <li>Re-program timer</li> </ul>
<b>Timer returns to Auto mode during programming</b>	<ul style="list-style-type: none"> <li>Timer will return to auto mode if no program input for 1 minute</li> </ul>	<ul style="list-style-type: none"> <li>Return to programming step and continue</li> </ul>

## Replacing the Batteries


- To prevent corrosion, always remove the batteries when the timer is not in use for long periods of time or when the batteries are low.
- It is recommended that new batteries are installed if you are going away for an extended period of time. This will ensure that watering continues as programmed.
- When removing old batteries 'PO' will flash on the display, indicating that you have 2 minutes to install the new batteries without losing any programmed data.
- If batteries are removed or fail during a programmed watering session, ensure they are replaced within two minutes otherwise the timer will not turn off the water.

## 11. Day - Displays the selected watering frequency

There are 8 options available

- |                      |                                  |
|----------------------|----------------------------------|
| 1 - Every day        | 5 - Every fifth day              |
| 2 - Every second day | 6 - Every sixth day              |
| 3 - Every third day  | 7 - Every seventh day            |
| 4 - Every fourth day | C - Calendar (eg. Mon, Wed etc.) |

Once the watering frequency or watering days are selected they will apply to all programs.

12. Day of Week - Indicates the current day of the week in automatic mode and watering days selected for calendar watering in programming mode.
13. % Seasonal Adjust — Allows you to alter the watering duration of set programs without reprogramming. Seasonal adjust can be set from 10% to 200% (in 10% increments) of programmed watering duration. Allows you to tailor watering duration with the change in the seasons. EG. if seasonal adjust is initially set at 100% and watering duration in program 1 is 10 minutes. Changing seasonal adjust to 150% will increase watering duration in program 1 to 15 minutes.
14.  Battery Low — Low battery icon will initially flash when the batteries are low. If the batteries are not replaced before the next watering cycle the battery icon will display continuously. This will prevent the set programs from activating and the tap timer will not turn on as scheduled.

## How to Install

1. Insert 2 new AA ALKALINE batteries in the battery compartment (Using old batteries will decrease the overall operational time of the timer).
2. Set the current day and time and desired watering programs before installation (See programming).
3. Fit the tap timer to the tap  
For 1" (25mm) taps – attach the tap timer directly to the tap using the 1" tap connector.  
For 3/4" (20mm) taps – attach the included 3/4" bush directly to the tap, then attach the tap timer to the bush.
4. Hand tighten until secure. Do not use tools to tighten. Do not over tighten.
5. Attach removable cover by aligning with bracket on front of tap timer. Gently slide cover onto bracket until it clips into place.

## Programming Instructions

### Set Current Time and Day

(The Pope Digital Set Automatic Tap Timer uses a 24 hour clock)

Set day:

1. Press **(M)**  
A bar will flash under MON (Monday) on the display panel  
Press **(+)** or **(-)** to move to current day  
Press **(ENTER)** when correct



Set hour:

2. The hour range will flash  
Press **(+)** or **(-)** to select the current hour (range 0 – 23)  
Press **(ENTER)** when correct



## Manual Operation

The Digital Set can be used to water outside of the set watering programs using manual operation.

To set manual on

1. Press **(ON/OFF)**  
Watering duration will flash
2. Press **(+)** or **(-)** to set desired watering duration (range 1 to 300 minutes)  
Press **(ENTER)** to confirm and start watering



The tap timer will shut off watering after the set time has expired and return to automatic mode

To stop manual watering before the set duration has passed  
Press **(ON/OFF)** watering will shut off immediately

## Rain Delay

You can bypass the set watering programs by pressing and holding **(ON/OFF)** for 5 seconds. This will prevent the tap timer from watering automatically.



The screen will change in automatic mode to show that the programs are inactive.

To resume programmed watering press and hold **(ON/OFF)** for 5 seconds.

Note: Your programmed watering will not re-commence until the bypass is turned off.


## Select Watering Days cont....

### Calendar Watering

Set your Digital Set Tap Timer to water on specific days of the week.

1. With C flashing press **(ENTER)**

A bar will flash under MON (Monday) on the display panel

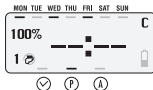
2. Press **(+)** or **(-)** to move between days  
— the bar will flash under the selected day as you move
3. Use **(ON/OFF)** to turn watering on or off for that day  
(the timer is initially set to off for each day )

Eg. To water on Monday, Wednesday and Friday

Bar flashing under MON — press **(ON/OFF)** to turn watering on  
Press **(+)** twice to move to WED

Bar flashing under WED — press **(ON/OFF)** to turn watering on  
Press **(+)** twice to move to FRI

Bar flashing under FRI — press **(ON/OFF)** to turn watering on  
Press **(ENTER)** when finished selecting watering days.

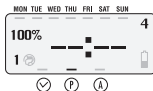


### Interval Watering

Set your Digital Set Tap Timer to water at set intervals by selecting the corresponding number below.

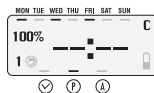
- 1 - Water every day
- 2 - Water every 2nd day
- 3 - Water every 3rd day
- 4 - Water every 4th day
- 5 - Water every 5th day
- 6 - Water every 6th day
- 7 - Water once per week

1. With C flashing press **(+)** or **(-)** to move to desired frequency  
Press **(ENTER)** to confirm



## Set Program Start Times

1. Program 1 will flash, press **(ENTER)** to select or
2. Press **(+)** or **(-)** to move to another program, press **(ENTER)**  
Start time hour will flash



3. Press **(+)** or **(-)** to select hour to start watering  
(adjustment range 0-23 hours)  
Press **(ENTER)** when correct  
The minute range will flash



4. Press **(+)** or **(-)** to select minute to start watering  
(adjustment range 0-59 minutes)  
Press **(ENTER)** when correct  
The watering duration will flash



5. Press **(+)** or **(-)** to select watering duration in minutes  
(range 1 — 300 minutes)  
Press **(ENTER)** when correct



### Program 2 will flash

To set further start times repeat steps 2 to 5 above for programs 2 — 10. To finish programming press **(M)** until the bar appears above **(A)** on the display panel. You are now in automatic mode.



Note: When entering multiple programs the start times do not need to be in order. The timer will automatically sort the programs starting with the earliest time.

## Review / Change set programs

1. Select programming mode (P) - press (M) until a bar appears above (P) on the display panel  
Seasonal adjust will flash — 100%
2. Press (+) or (-) to adjust, press (ENTER) when correct  
Watering frequency will flash
3. Press (+) or (-) to adjust, press (ENTER) when correct  
Program 1 will flash
4. Press (ENTER) to review program 1 or
5. Press (+) or (-) to move to programs 2 – 10  
When in desired program
6. Press (+) or (-) to adjust start time or watering duration
7. Press (ENTER) to confirm each change

## Clear set programs

1. Select programming mode (P) - press (M) until a bar appears above (P) on the display panel  
Seasonal adjust will flash — 100%
2. Press (ENTER) to confirm  
Watering frequency will flash (watering days)
3. Press (ENTER) to confirm  
Program 1 will flash
4. Press (CLEAR) to delete program 1 or
5. Press (+) or (-) to move to programs 2 – 10
6. When at desired program press (CLEAR) to delete that program
7. Press (M) to return to automatic mode

## Set minutes

1. The minutes range will flash  
Press (+) or (-) to set the minutes (range 0-59)  
Press (ENTER) when correct



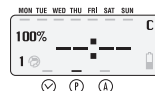
2. The programming mode screen shows  
To start entering watering programs follow instructions below for setting seasonal adjust

To return to automatic mode press (M) until the bar appears above the (A)



## Set Seasonal Adjust

1. Select programming mode (P) - press (M) until the bar appears above (P) on the display panel OR  
with programming mode already selected  
Seasonal adjust will flash — 100%  
(we recommend setting at 100% initially, adjustments can then be made as required)  
Press (+) or (-) to adjust (in 10% increments)  
Press (ENTER) when correct  
Watering days will flash — C for calendar will flash



## Select Watering Days

You can set the Digital Set for either Calendar or Interval watering.

Your selected watering days or frequency will apply to all programs.