WASSERTECH ®w
Automatic Watering System
Instruction Manual

Package Contents

1 x catering timer unit
(pump included)
1 x 10 metre length of vinyl tubing
10 stainless steel spring pegs

Introduction

This special watering kit contains everythink you need to water up to 10 potted plants automatically. The kit contains 10 metres of vinyl tubing, that can be cut to the desired length, and timer can be adjusted to alter the frequency and length of the time plants are watered for.

Important notes

The unit will not function, unless the detector unit on the bootm of the pole is fully inmersed in water.
If the unit beeps, you need to replace th batteries, or add more water to the bucket. To switch off the warning sound, press the "Power" button to switch the unit off and then press the Power" button to switch the unit back on.
Before use, consult the reference table at the back of these instructions to determine how many tubes, and the correctly sized pot/pots that you will need.
Make sure that any unused connector slots are closed with the caps.
Normally only one tube is required per plant.

Setup

1. Fill a bucket with water; insert the pole in to the water (as shown in fig. 10 point 1).
2. Open one of the water outlet caps on the watering unit and insert one end of the tubing into it (see fig.1 point 8). Please note that you may need to cut the end of the tubing at a slight angle to do this.
3. Runt the other end of the tubing to the potted plant you wish to waterand, with a pair of scissors, cutoff enough length to comfotably reach the soil of the plant (see fig. 1 point 6/7). Secure the tube in place with one of the pegs (see fig. 2-4 below). Repeat this process for as many other plants as you wish to water. Please note that the flow range will vary according to how many tubes you have connectad to the unit at any one time (please see the reference table at the back of these instructions).
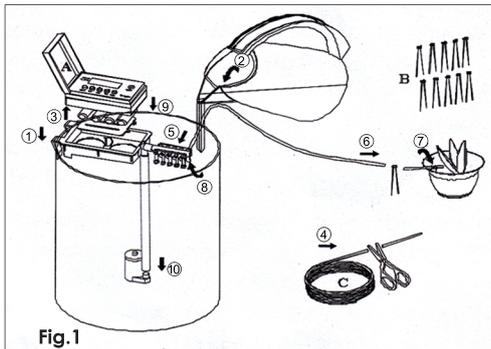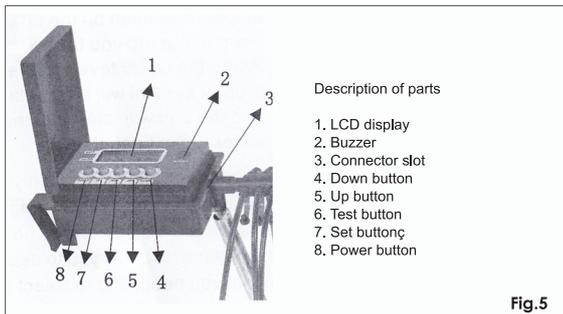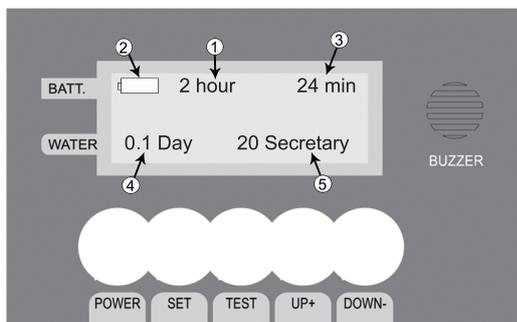

Fig.1

Fig.2   Fig.3   Fig.4

Description of parts

1. LCD display
2. Buzzer
3. Connector slot
4. Down button
5. Up button
6. Test button
7. Set buttonç
8. Power button

Fig.5

Programing Instructions

Important note:
Once programed, the unit will run for an indefinite period of time until the water runs out, or you remove the watering system from the water.

1. Remove the battery compartment from the cradle unscrew the battery compartment with a screwdriver and insert 4 x AA batteries (not included) see figure 1 point 3.
2. Press the "Power" button until you reach the "day icon" on the LCD display (see fig. 6) and use the "Up" or "Down" buttons (see fig. 6) to set a watering time frequency (from 0.1 to 30 days).
Example: If you wanted to set unit to run 5 times a day, you would need to set the frequency to 0.2 (1/0.2=5). If alternatively you wanted to seto the watering system to run twice a day you would need to set the frequency to 0.5 days (1/0.5=2). Please refer to the waterinr table for further examples
3. Press the "Set" buton again until you reach the "Ses" icon and press the up/down buttons (see fig. 6) to set a watering time (from 1 second to 99 seconds).
Example: If you wanted to set a 20 second watering duration, you simply need to select 20. Altenatively if you wanted to select a 30 second watering duration, you would simply need to select 30. Please refer to the watering table for further examples.

4. Press the "Test" button for first watering, and then it will enter in to automatic running status as programmed.
If you press the "Power" button first, the press the "Test" button, the automatic default running time is 30 seconds and the frecuency time is 0.1 days.

LCD DISPLAY DIAGRAM

① - This shows the watering frequency time in hours
② - Low battery flashing symbol
③ - This shows the watering frequency in minutes
④ - Watering frequency
⑤ - Running time

LCD Display

1. When the battery power is low, a battery simbol will display and flash on the LCD screen, an the unit will beep to remind you to change the battery.
2. When the water levels in the bucket are low, a water droplet symbol will be displayed on the LCD screen and the unit will alert you that you need to add more water to the bucket.

The watering volume is not only a result of programing but is also affected by the voltage of the batteries. The reference table below shows flow range versus vatering running time to allow you to decide how many tubes per pot that you need, and to select a suitable sized pot/pots.

SAMPLE OF POSSIBLE WATERING SETTINGS

Desired watering	Watering frequency settings (Day icon on display)	Running time setting (Sec icon on display)
Water once a day (for 30 seconds per day)	1.0	30
Water Twice a day for 20 seconds.	0.5	20
Water every second day for 60 seconds.	2	60
Water once a week for 60 seconds each time.	7	60

REFERENCE TABLE
(When the running time is 30 secs, the range of tube reference table)

Length of the tube (cm)	Tubes and Flow range for each tube V (ml/s)									
	1	2	3	4	5	6	7	8	9	10
50	6.5	6.3	6.2	5.8	5.5	5.3	4.9	4.7	4.4	4.0
100	4.8	4.7	4.5	4.4	4.4	4.3	4.0	3.7	3.5	3.3
150	3.5	3.4	3.4	3.1	3.0	3.0	2.9	2.8	2.8	2.7