

Instruction Manual

- **T100/1S**
- **T100/1G**
- **T100/1G-SOL**
- **T100/2S**
- **T100P-A2**
- **T100P-AB2**



7-DAY TIMER SYSTEMS & TIMER CONTROLLED PUMP SYSTEMS

Supplied by:

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- Note:** On-going product development at Convergent Water Controls may lead to changes in the specifications of this product.
- Warranty:** This product is guaranteed for a period of 12 months from installation date. The warranty applies to manufacturing or component defects which may cause the unit to malfunction under specified conditions. The guarantee does not cover damage due to abuse, tampering or improper installation.
- Disclaimer:** Convergent Water Controls will not be held liable for any consequential damage or loss arising resulting from product malfunction.

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1. INTRODUCTION

Often used for biocide dosing, the T100 systems are easy to use and maintain.

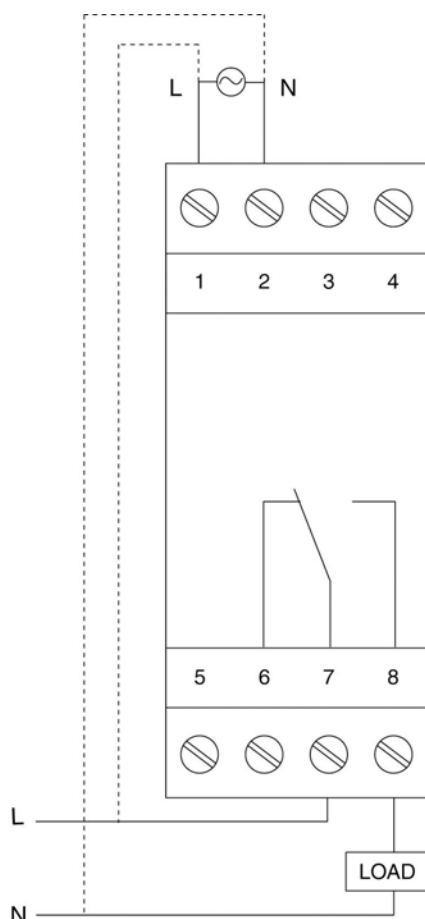
1.1 Features

- Easy to program
- Timer(s) housed in IP65 enclosure which is recessed and offers protection of the timer LCD display from the sun
- 6 Independent programs
- Manual override

2. INSTALLATION

2.1 Electrical Wiring Information

The diagram below shows the connection of a load (eg. SEKO PE-1.3 pump) to each control timer.



1. Active 240VAC Supply
2. Neutral 240VAC Supply
7. Link to Active 240VAC Supply
8. Active for Pump

LOAD = Pump/Solenoid Valve

2.2 Installation

1. Mount the T100 system on a flat vertical surface (above a chemical tank if being used).
2. Mount the unit in such a way that the timer is at eye level to allow good visibility of the timer.

For systems with SEKO peristaltic pumps:

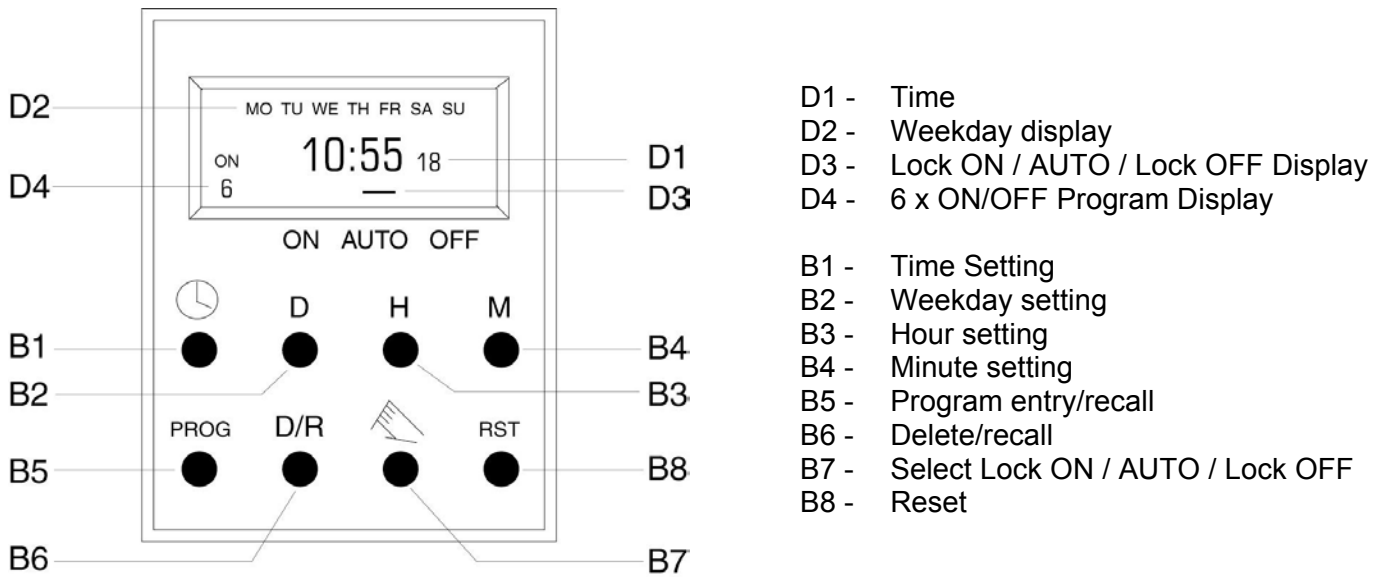
1. Fit the suction tubing to the suction connection of each pump (represented on the lid with Δ) and tighten the nut.
2. Insert the other end of the suction tubing onto the foot filter weight and tighten the nut.
3. Ensure that the suction tubing is inserted into the liquid container. **Note: the suction height should not exceed 1.5m.**
4. Fit the discharge tubing to the discharge connection of each pump (represented on the lid with ∇) and tighten the nut.
5. Ensure the discharge tubing is inserted into the discharge point.

2.3 Maintenance – changing the squeeze tube on SEKO pump

This procedure is for T100P-A2 and T100P-AB2 only.




1. Disconnect the unit from the power supply.
2. Take off the transparent lid on the pump
3. To take out the squeeze tube (including connectors), turn the roll holder clockwise so that the rollers are on a vertical line.
4. Lift the squeeze tube from the left of the pump and manually rotate the roll holder clockwise until it is possible to lift the right side of the squeeze tube.
5. To insert a new squeeze tube, turn the roll holder so that the rollers are on a horizontal line.
6. Insert the squeeze tube assembly in its seat on the left of the pump with the curved side towards the floor and manually rotate the roll holder clockwise until it is possible to insert the right hand side connection into its seat.
7. Insert the transparent lid starting from the top, with the ridge of the lid facing up (Δ should be on the LHS and ∇ on the RHS) and pushing slightly on the sides until you hear a click.

3. PROGRAMMING THE TIMER(S)



NOTE: Pressing RST erases the time and all program settings.

3.1 Setting the Clock

1. Hold down  and press **D** until the correct day is displayed.
2. Hold down  and press **H** until the correct hour is displayed.
3. Hold down  and press **M** until the correct minutes is displayed.

3.2 Setting the timer programs


Note: At any time when a time is displayed you can press **D/R** to reset that time.

1. Press PROG, and the ON time for program 1 will be displayed (if no time was previously set a line of dashes will be displayed)
2. Press **D** until the day of the week (or days of week), that you want to activate the pump, is displayed.

Options are:



- a) every day of the week,
- b) any day of the week
- c) Monday to Friday, or
- d) Saturday & Sunday

3.2 Setting the timer programs (continued)

3. To set the time at which you want the pump to be activated:
 - i. press **H** to select the hour,
 - ii. press **M** to select the minutes
4. Press PROG, and the OFF time for the current program will be displayed (if no time was previously set a line of dashes will be displayed).
5. To set the time at which you want the pump to be de-activated:
 - i. press **H** to select the hour,
 - ii. press **M** to select the minutes
6. Press PROG, and the ON time for the next program will be displayed (if no time was previously set a line of dashes will be displayed). Note that the program no. will also be displayed.
7. Repeat steps 2 to 6 until all programs have been setup.
8. Press  to exit out of programming – the current time will now be displayed.

Important:

To ensure that the programs operate, do the following:

1. Press  until the line above **OFF** is displayed.
2. Press  once and the line above **AUTO** should be displayed.

3.3 Manually activating the pump/valve (or GPO sockets)

Press  to change from AUTO to either ON or OFF.

- If the line on the display is above ON, the pump/valve will manually be activated. Remember to set this back to OFF and then AUTO in order for the timer programs to operate.
- If the line on the display is above OFF, the pump/valve will manually be de-activated. Remember to set this back to AUTO in order for the timer programs to operate.

4. SPECIFICATIONS

| | |
|--------------------------------|---|
| Power Supply: | 220 – 240 VAC (50 / 60 Hz) |
| Outputs: | T100P-A2: 1 x SEKO peristaltic pump, 1.3 l/hr @ 3 Bar (0.4 or 5 l/hr available on request) T100P-AB2: 2 x SEKO peristaltic pump, 1.3 l/hr @ 3 Bar (0.4 or 5 l/hr available on request) |
| Timer Enclosure rating: | IP65 (ie. completely weatherproof) |
| Operating Temperature: | 0 - 50°C |