SMART DOSE

DOSING PUMP TIMER CONTROLLER
Instruction Manual

bio natural™ SOLUTIONS
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SMD0001

DESCRIPTION

The SMART DOSE controller will operate a dosing pump according to the timer(s).

AUSTRALIAN MADE

www.bnsolutions.com.au

15/ 53 - 55 GARDEN DRIVE TULLAMARINE VIC 3043
PO BOX 2107 GLADSTONE PARK 3043
Opening Hours: Monday to Friday 8:30am - 5:00pm
1300 730 551 (03) 9338 6722
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INSTALLATION INSTRUCTIONS

⚠ THIS APPLIANCE IS NOT INTENDED FOR USE BY YOUNG CHILDREN OR INFIRM PERSONS WITHOUT SUPERVISION. PLEASE ENSURE THAT YOUNG CHILDREN ARE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.

Ideally, as with all outdoor equipment, the controller should be installed out of direct weather.

CONTROLLER MOUNTING	Find a suitable location to mount the control box. The controller should be no closer than 3 metres from the water's edge and a minimum 600mm above ground (no higher than 1.8 metres). The power cable is 1.8m long and should be plugged directly into a general power outlet, **not into an extension lead.** Fix the mounting bracket to a solid structure with the screw and wall plug kit provided. Slide the controller on, locking it into place. Adjust the screws on the back of unit to ensure a snug fit. To remove unit, lift and gently pull away from structure.

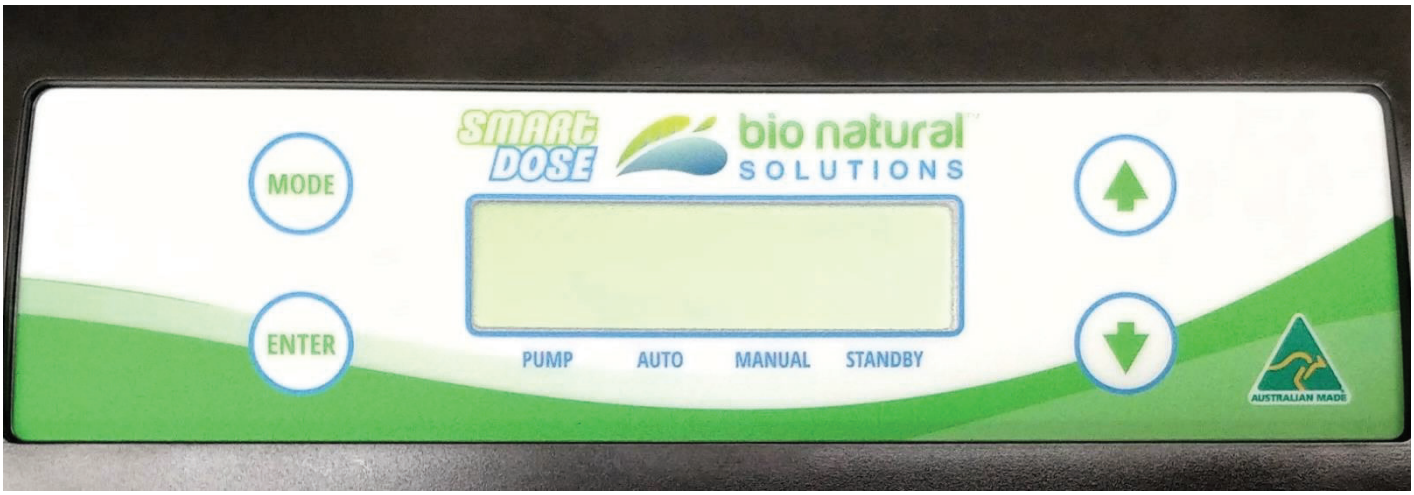
- A check valve.
- An Injection Manifold (suits 50mm pipe, 2 reducing bushes required if installing into 40mm pipe) for the injection hose to be connected to.
- A bottle/tub connection kit (including lids, breather connection and bottle/tub tube).
- A 5M length of tubing.
- Blanking cap.

Supply Hose – via the check valve

Injection Hose – goes from this side of the pump to the Injection Manifold.

HINT: –Soak the ends of supply and injection hoses in hot water for 30 seconds to soften them, this will make it easier when fitting the tubes to the pump barbs.

- The lid kit has been installed into the bottle/tub of additives.
- The injection hose has been installed between the peristaltic pump and the bottle/tub of additives, with the **Check Valve installed** between the peristaltic pump and the lid of the bottle/tub lid.



OPERATING INSTRUCTIONS

LCD SCREEN	The LCD screen displays the operating mode, and the time of day (clock).
LCD INDICATORS	There are arrow icons on the LCD screen that indicate what actions the controller should currently be doing. These arrows point to text on the label.
MODE BUTTON	Pressing this button changes to the next mode of operation. Once the mode button is no longer being pressed then the selected mode of operation is automatically saved. • ***AUTO RUN*** – In this mode, the unit operates the pump according to the run time(s) set, this mode is also indicated by the LCD arrow pointing towards AUTO on the label. • ***MAN. OFF*** – Manual OFF turns the pump OFF and prevents it from starting, this mode is also indicated by the LCD arrow pointing towards STANDBY on the label. • ***MAN. ON*** – Manual ON turns the pump ON, This mode is also indicated by the LCD arrow pointing towards MANUAL and PUMP on the label. Manual mode will revert to AUTO RUN after the adjustable pump run time has expired. **The factory default MODE is AUTO RUN.* This mode is also indicated by the LCD arrow pointing towards AUTO on the label.

ENTER BUTTON	Pressing the ENTER button will turn on the LCD backlight. Pressing the ENTER button while the backlight is lit will enter the SETTINGS MENU. The following will be displayed: 1) EXIT, the menu system can be navigated using the ↑ or ↓ buttons. All selectable and changeable values will flash on the LCD screen. Press the ENTER button to accept the currently displayed (flashing) item.
UP/DOWN BUTTONS	The up and down buttons are used in the settings menu for adjusting values. During any of the operating modes they will only enable the LCD backlight. (UP button can be held to skip scrolling messages, pressing both buttons will reboot the controller.)

ENTER BUTTON (SETTINGS MENU- CONTINUED...)

All menu items are shown below:

1) EXIT
2) CLOCK
3) RUNHRS
4) SYSTEM

1) EXIT	Will return to the current operating mode.
2) CLOCK	When selected, you will be prompted to set the current time of day in 24hr format (with an AM/PM indicator)
3) RUNHRS	When selected, you will be prompted to set the number of times to run per day: RUN TIMES PER DAY – 1 or 2 (e.g., once or twice per day) You will then be prompted to set the start time of the 1st timer: SET START TIME(S) S1 hh:mm (Start time for cycle 1, hours in 24hr format, minutes in 30-minute increments) If only 1 run time per day is selected then the unit will prompt you to set Pump run time in seconds, set the duration of the pump timer from anywhere from 5 to 240 seconds, the unit will then save the settings and return to the previous operation mode, else If 2 run times are selected: You will then be prompted to set the start time of the 2nd timer: S2 hh:mm (Start time for cycle 2) Once set, the unit will prompt you to set Pump run time in seconds, set the duration of the pump timer from anywhere from 5 to 60 seconds in 1 second increments and 60 to 240 in 5 second increments, the unit will then save the settings and return to the previous operation mode. **The factory default is 2 times per day at 9:00 and 18:00 for 10 seconds*

4) SYSTEM	*EXIT* - Press ENTER on this menu to return to automatic operation. *LCD TIME* – Adjust the number of seconds the backlight remains on after the time a button was pressed. [Select NONE for always on.] Once the selection is made the unit will save the settings and returns to the previous operating mode. **The factory default is 240 seconds [4 minutes]* *DEFAULT* – Restore the controller back to factory defaults.

NOTES:	1. If any of the menu items are left unattended for 3 minutes, the menu will time out and automatically save all settings and return to the selected mode of operation. 2. Should power be interrupted for any reason, the controller will resume normal operation when power is restored. All information will have been kept for up to 10 days. 3. Degree of protection against moisture: IP33. 4. Store additives and chemicals safely, at least 3 metres away from all electronic equipment.

TROUBLE SHOOTING

NO POWER TO THE DISPLAY:

Power point is faulty. Test power point with a known working appliance. If the power point is operational, check the controller in another power point and if there is still no display then send the controller for repair.

RTC-FAIL – This can occur if the unit has been turned off for a prolonged period of time. Leave the unit on for ~30 seconds, then turn it off for ~30 seconds before turning it back on.

WARRANTY

- This range of product is covered by a limited 3-year warranty against component failure or faulty workmanship from the date of installation.
- Faulty units should be returned in the first instance to the dealer from which the unit was purchased. (Return to Base)
- Damage to the unit due to misuse, power surges, corrosion from chemical fumes, lightning strikes and or installation that is not in accordance with the manufacturer's instruction may void the warranty.
- Warranty does not include on-site labour or travel costs to or from installation site.

If the power cord is damaged, do not use the controller. Return the unit to the supplier for repair.

CUSTOMER RECORD (To be retained by the customer)

DEALER/INSTALLER NAME

SERIAL NUMBER

DATE INSTALLED

For service assistance visit *www.bnsolutions.com.au*

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