SL101N DIGITAL LIQUID DISPENSER

OPERATING MANUAL





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SL101N Digital Dispenser

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The SL101N digital liquid dispenser, with its versatile design makes it perfectly suited for a wide variety of dispensing applications, from microdot deposits to large potting and filling. Suitable for all types of fluids, it includes a suck-back feature to ensure low viscosity liquids do not drip.

The SL101N provides micro controlled timer programmable from 0.01 to 9999 seconds.

All set up hoses and fittings, along with barrels and tips, make the unit ready to use right out of the box.







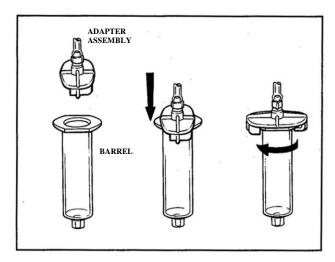
Standard Accessories

Qty	Description	Re-order P/N	Re-order
	·		Qty/Pkg
1	Power cord – 110V	560033-LF	1
1	Power cord – 220V	560033E-LF	1
1	Power cord – 220V	560033E-PLUG	1
1	Barrel stand	560751LF	1
1	Air input Line	561851	1
1	Foot pedal	560027D	1
1	30cc barrel adapter	5601468	1
1	5cc barrel adapter	5601035	1
3	30cc barrel	5601004	10
2	5cc barrel	5601001	10
3	30cc barrel piston PE	5601465	20
2	5cc barrel piston PE	5601019	40
1	Component Kit	DCK500	1

Specifications

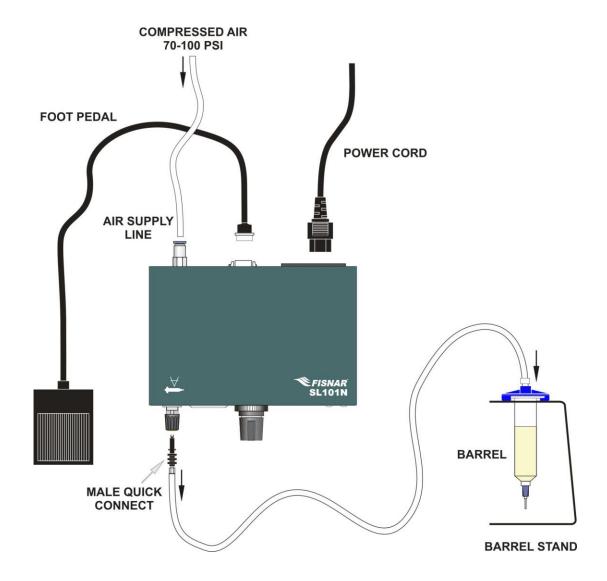
• Size:	8 5/8" x 8 1/2" x 2 5/8" (22 x 21 x 6.7cm)	
Weight:	2.2 lbs. (1 kg)	
Input Voltage:	90-260 VAC	
Dispense Time:	0.01 - 9999 seconds	
Internal Voltage	24VDC	
Cycle Speed:	600+ /Minute	
• Air Input:	70-100psi (5-7 bar)	
• Air Output:	1-100psi (0.1-7 bar)	
• Standards:	European CE approved unit	
Barrel "Suck-Back" Feature		

SETTING UP



- 1. Connect air hose to filtered compressed air 70 100 psi (5-7 bar) and connect fitting to the dispenser.
- 2. Insert Foot Switch Plug.
- 3. Insert and twist male quick connect into dispenser.
- 4. Insert power cord female plug into dispenser and insert the male plug into a grounded outlet.
- Fill barrel (with barrel tip cap on the barrel) with material to be dispensed and lock barrel to adapter assembly as shown in the image to the left.

AIR & ELECTRICAL SET UP DIAGRAM



UNDERSTANDING THE CONTROLS



Suck Back Control – Keeps a steady pull of air pressure in the syringe when not dispensing. This will help with material

leaking from the syringe.

Pressure Gage – Shows the amount of pressure being used to dispense.

Pressure Regulator - Adjusts the amount of pressure being used to dispense. In order to reach a desired pressure

level, first to pull the knob out to unlock it so it will rotate. Turn the knob counter-clockwise to a point below the desired pressure, and then turn the dial clockwise to reach the desired pressure.

Barrel / Valve Air Outlet - Air outlet where valve or barrel can be hooked up.

Digital Display - Displays information pertaining to the programming and use of the unit.

▲/SET – Used as an up scroll key and to begin the programming of a mode.

▼/MEM - Used as a down scroll key and to save / recall a program.

◄/SHOT – Used as a left scroll key and to begin dispensing.

MODE/EXIT – Used to toggle between dispensing modes and to exit some functions.

Operation Modes

- MANUAL In this mode the unit will dispense as long as the foot pedal or SHOT button is pressed.
- TIME The unit will dispense for a set amount of time regardless of how long the foot pedal or shot button is pressed.
- CYCLE The unit will dispense and wait for a specified amount of time before dispensing again. It will cycle
 continuously until the EXIT button is pressed.

Switching Between Modes

Use the **MODE** button to switch between the 3 modes. You can identify which mode you are in by the illuminated light above the modes.

Manual Mode

Manual Mode allows the user to dispense for an unlimited amount of time by either pressing down on the supplied foot pedal or pushing the **SHOT** button on the front of the SL101N unit. The material will continue to dispense for as long as the user is pushing down on the foot pedal or pressing the **SHOT** button, as soon as either of these are released the dispensing will stop.

The unit will also count the amount of time you are dispensing during a cycle which may be helpful in determining a time to be used when programming the timer mode. If you need to adjust the decimal point to allow for the timer to show a higher or smaller value press the SET button then use the ▲ and ▼ to adjust the position.

1. Press the **MODE** button to cycle to Manual Mode.



2. The **SHOT** button is located at the circled area below.



Timer Mode

The Timer Mode allows the user to dispense for a set period of time despite how long the foot pedal is pressed.

For Example: If you would like to set the dispenser to dispense for 1 second follow the below instructions.

1. Press the MODE button until the Timer Mode is selected.



2. Press the **SET** button. The first digit on the right side of the display will start blinking.



3. Press the ◀ button twice. The third digit from the right should be blinking.



4. Press the ▲ button once to increase the value of this digit. The display should look like the one below. (To adjust the decimal refer to page 11.)



5. Press **Exit/Mode** to save as current setting.

To use Timer Mode you can either press the **SHOT** key on the front panel of the SL101N unit or press down on the foot pedal.

Cycle Mode

Cycle Mode allows the user to create a repeating cycle of dispensing. This is programed by setting a wait time between dispensing. This mode is reliant on the previous setting that was made in Timer Mode to determine the length of dispensing during the cycle.

For Example: If you would like to dispense for 1 second then wait for 5 seconds and cycle these times over again you would need to have already set your Timer Mode for 1 second (see previous page for these instructions). To set the 5 second wait time in your cycle follow the below directions.

1. Press the Mode button until the Cycle Mode is selected.



2. Press the **Set** button. The first digit on the right side of the display will start blinking.



3. Press the ◀ button two times. The third digit from the right should be blinking.



4. Press the ▲ button five times. The display should now show a 5 second wait time. (To adjust the decimal refer to page 11)



5. Press Exit/Mode to save as current setting.

To use the cycle mode press the **SHOT** button on the SL101N to activate the cycle. To deactivate the cycle press the **EXIT** button.

Saving to Memory

The SL101N has the storage capacity for up to 9 programs that can be saved to its memory for future recall. The memory will always save your current settings for the particular mode you are in.

For Example: If you wanted to save your current Timer Mode setting to program 9 you would first need to select timer mode then proceed with saving. You can also save your Cycle Mode settings to program 9 by following the same procedure.

To save your current settings to memory address 9 follow the below instructions.

1. Change to the mode you would like to save then press and hold the **MEM** (Memory) key for 2 seconds until the unit beeps.



2. The display will show Ld 1 (Load from Memory #1).



3. Press the **MEM** key again to change from **Ld 1** to **Sv 1** (Save to Memory #1).



4. Press the ▲ key 8 times to get to memory address 9.



5. Press the **EXIT** key to complete the save.

To save your current cycle mode settings switch the mode to cycle and then continue with the above procedure.

Loading from Memory

After saving your Cycle Mode and Timer Mode settings to the SL101N memory you can then recall them to be used again. Both the Cycle Mode and Timer Mode need to be loaded separately by switching to the mode you would like to load.

For Example: To load the cycle time that was saved in memory 9 on the previous page follow the below steps.

1. Switch to Cycle Mode then press and hold the **MEM** (Memory) key for 2 seconds until the unit beeps.



2. The display will show Ld 1 (Load from Memory #1).



3. Press the ▲ key 8 times to get to memory address 9.



4. Press the **EXIT** key to complete the load. Program 9 Cycle Mode settings are now in effect. The display should show 5 seconds.



To load the timer mode settings switch to Timer Mode then follow the same directions.

Setting the Decimal Point

The decimal point is normally set at a default place between the second and third digits on the display. This can be changed to allow for a longer or shorter dispense time. To change the decimal place position press the **SET** button then the ◀ button 4 times. This will make the decimal point blink. When the decimal point is blinking you can then press the ▲ or ▼ buttons to adjust its position.

Auto-Purge Function

The Auto-Purge function is used when a material is being dispensed that may cure in the dispensing needle if left sitting for long periods of time. Before auto purging your material be sure to read over the material MSDS for any precautions that may need to be taken. Also be sure that you have a proper storage container for the purged material.

In order to setup auto purge on the SL101N dispenser, the user must configure both the time it needs to dispense (dispense time) and the time it pauses before dispensing again (wait time). The total time will be the time it takes the dispenser to do the whole routine (cycle time).

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Cycle time = Dispense time + Wait time
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For example, let's say you wanted to auto purge one second worth of material every five seconds for a total time of six seconds. What you need to do is the following:

- 1. Set the Dispense time to 1 second.
- 2. Set the Wait time to 5 seconds.

LIMITED WARRANTY

Manufacturer warrants this product to the original purchaser for a period of two (2) years from the date of purchase to be free from defects in material and workmanship, but not against damages caused by misuse, negligence, accident, faulty installation, abrasion, corrosion or by not operating in accordance with factory recommendations and instructions. Manufacturer will repair or replace (at factory's option), free of charge, any component of the equipment thus found to be defective, upon prepaid return of the equipment to the factory during the warranty period of the equipment. In no event shall any liability or obligation of Manufacturer arising from this warranty exceed the purchase price of the equipment. This warranty is valid only when 5 micron filtered air is used. The manufacturer's written liability, as stated herein, cannot be altered or enlarged except by a written statement signed by an officer of the company. In no event shall manufacturer be liable for consequential or incidental damages. A return authorization is required from FISNAR INC. prior to shipping a defective unit to the factory.

Manufacturer reserves the right to make engineering or product modifications without notice.



