

SL101-110 & SL101-220 DIGITAL LIQUID DISPENSER

OPERATING MANUAL



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SL101-110 and SL101-220

USED IN THE FOLLOWING INDUSTRIES:

- Automotive
- Semiconductor
- Speakers
- PCB Assembly
- Medical Devices
- Jewelry
- Sensor Manufacturing
- Connectors
- Flat Panel Displays
- SMT
- General Automation

And many, many more!



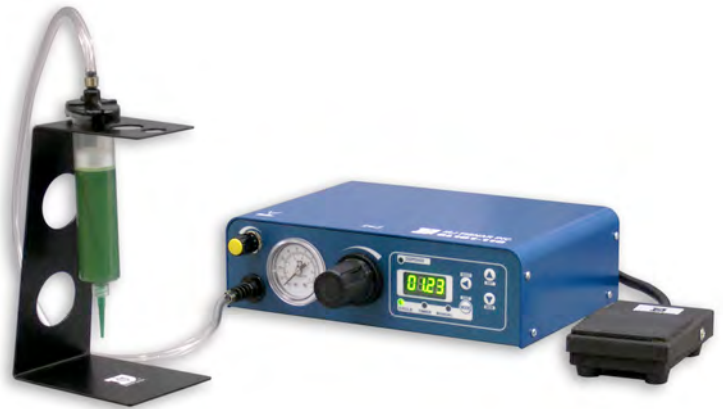
Standard Accessories

Qty	Description	Re-order P/N	Re-order Qty/Pkg
1	Power cord – 110V unit	560033	1
1	Power cord – 220V unit	560033E-CE	1
1	Power cord – 220V unit	560033E-PLUG	1
1	Barrel stand	560751	1
1	Air hose	561851	1
1	Foot pedal & cord	560027D	1
1	30 cc barrel adapter	560004A	1
1	5 cc barrel adapter	560003A	1
3	30 cc barrel	560002E	10
3	5 cc barrel	560001A	10
3	30 cc barrel piston PE	560552	20
3	5 cc barrel piston PE	560550	40
2	Barrel tip cap	580142	10
2	14 gage tapered tip	560783K	25
2	16 gage tapered tip	560010K	25
2	18 gage tapered tip	560011K	25
2	20 gage tapered tip	560012K	25
2	22 gage tapered tip	560013K	25
2	24 gage tapered tip	561338K	25
2	20 gage blunt end tip	560088	25
2	21 gage blunt end tip	560089	25
2	22 gage blunt end tip	560090	25
2	23 gage blunt end tip	560014	25
2	25 gage blunt end tip	560015	25
2	30 gage blunt end tip	560016	25

The SL101 digital liquid dispensers with their versatile design make them perfectly suited for a wide variety of dispensing applications, from microdot deposits to large potting and filling. Suitable for all types of fluids, include a suck-back feature to ensure low viscosity liquids do not drip.

The SL101 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.



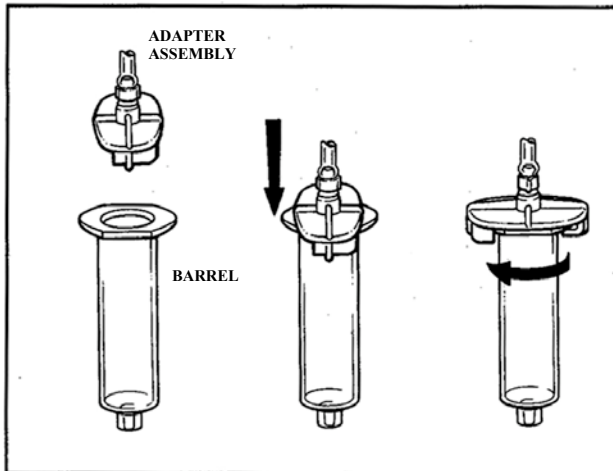
Specifications

• Size:	8 5/8" x 8 1/2" x 2 5/8" (22 x 21 x 6.7cm)
• Weight:	3.5lbs 2oz (1.59kg)
• Input Voltage:	110V – Model SL101-110 220V – Model SL101-220
• Dispense Time:	0.01 - 9999 seconds
• Internal Voltage:	3.3 & 24V dc
• 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	

Ordering Guide

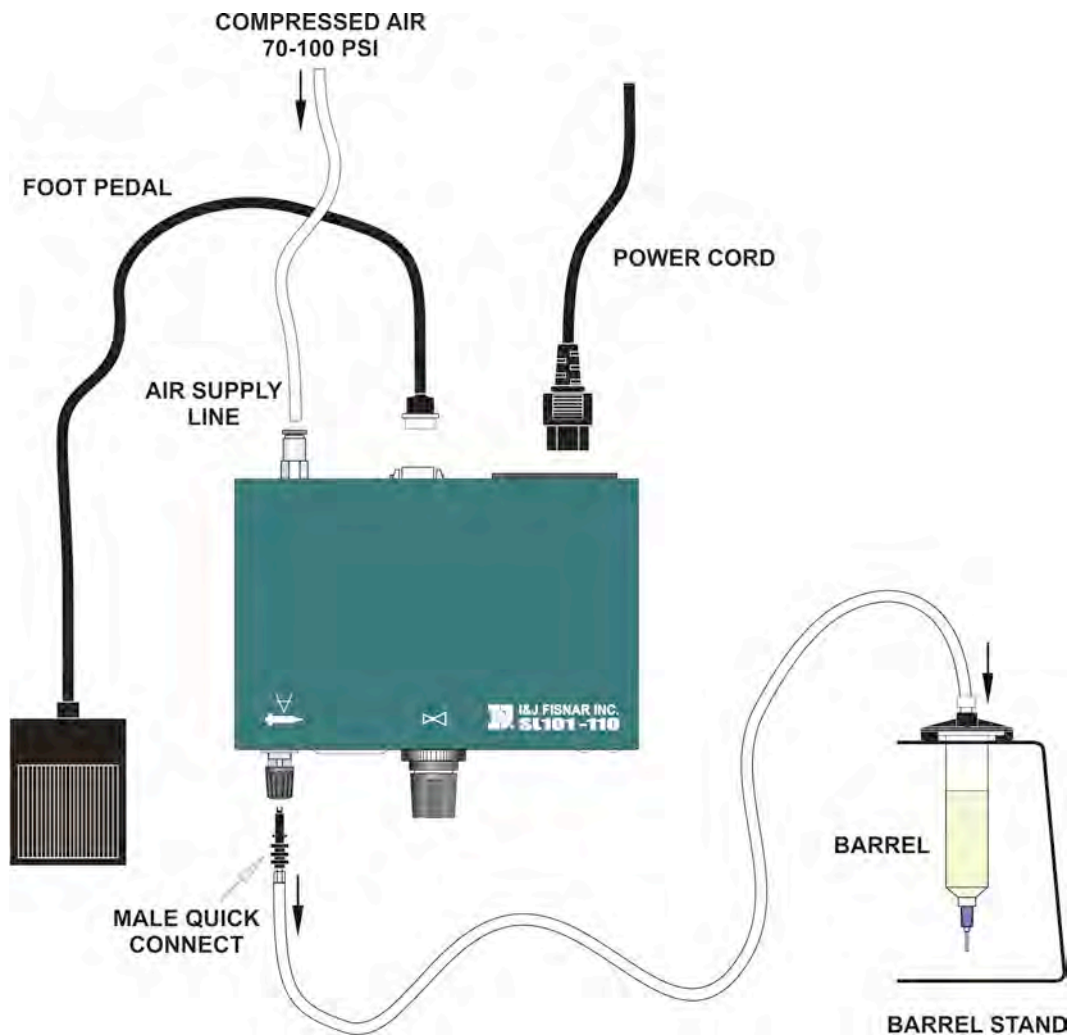
SL101-110	Automatic Liquid Dispenser – 110V ac
SL101-220	Automatic Liquid Dispenser – 220V ac

SETTING UP



1. Connect air hose to filtered compressed air 70 - 100 psi (5-7 bar) and connect fitting to 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 - CHECK VOLTAGE LABEL on back of unit.
5. Fill barrel (with barrel tip cap on the barrel) with material to be dispensed and lock barrel to adapter assembly as shown.

AIR & ELECTRICAL SET UP DIAGRAM



UNDERSTANDING THE FUNCTIONS OF YOUR DISPENSER DISPLAY



OPERATING INSTRUCTIONS FOR SL101 UNIT

SL101 UNIT CAN OPERATE IN 3 MODES:

- MANUAL – in this mode the unit will dispense as long as the foot pedal* is pressed
- TIMER – in this mode once the foot pedal* is pressed the unit will dispense for a certain amount of time - “DISPENSE TIMING”
- CYCLE – in this mode, once the foot pedal* is pressed the unit will dispense for a certain amount of time - “DISPENSE TIMING” -, and then wait for some time - “WAIT TIMING”-, and will repeat this cycling until the **EXIT** button is pressed

* If the foot pedal is not connected you can use the **SHOT** button instead of the foot pedal

SWITCHING THE MODES

Use the **MODE** button to switch between the 3 modes

SETTING THE “DISPENSE TIMING”

While unit is in TIMER mode, press the **SET** button and the first digit on the display will start blinking. Use the ▲ and ▼ keys to adjust the digit. Use the ◀ key to advance to the next digit. After the last digit is adjusted, pressing the ◀ key will make the decimal point blink, and using the ▲ and ▼ keys you can adjust the position of the decimal point. Once you are done with setting the timing, use the **EXIT** button.

SETTING THE “WAIT TIMING”

While unit is in CYCLE mode, press the **SET** button and the first digit on the display will start blinking. Use the ▲ and ▼ key to adjust the digit. Use the ◀ key to advance to the next digit. After the last digit is adjusted, pressing the ◀ key will make the decimal point blink, and using the ▲ and ▼ keys you can adjust the position of the decimal point. Once you are done with setting the timing, use the **EXIT** button.

SAVING AND RETRIEVING THE TIMING FROM/TO MEMORY

SL101 unit can store 9 timing settings.

While in TIMER or CYCLE mode, press and hold the **MEM** key for 2 seconds until the unit beeps. The Display will show Ld 1 (Load from Memory #1). Press the MEM key again to change from Ld 1 to Sv 1 (Save to Memory #1). Press the **▲** to advance the memory position (Ld 1 -> **▲** -> Ld 2 or Sv 1 -> **▲**-> Sv 2).

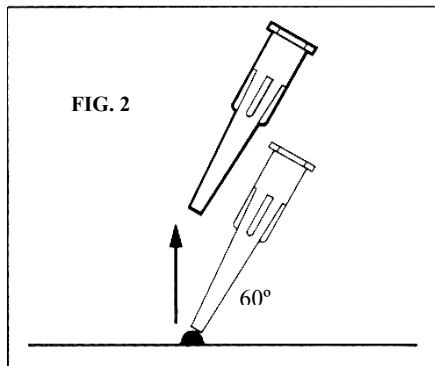
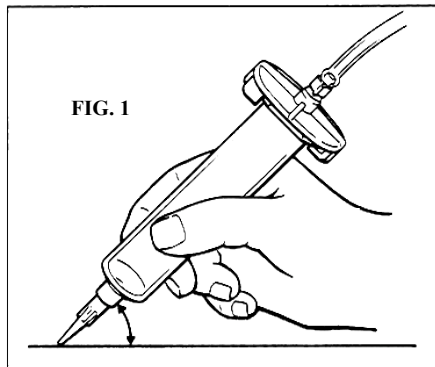
CHANGING THE TIMING RANGE (POSITION OF THE DECIMAL POINT) IN MANUAL MODE

While the unit is in Manual mode press the **SET** button and the decimal point will start blinking. Use the **▲** and **▼** keys to adjust the position of the decimal point.

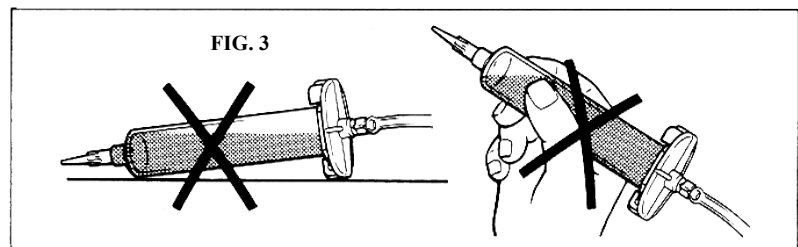
SAVING THE DISPENSED TIME FROM MANUAL TO "DISPENSE TIMING"

Sometimes to find the appropriate dispense time to dispense the desired amount of material is by dispensing in manual mode and recording the dispensed time, and then setting that time in the timer mode. Once the desired amount of material is dispensed, the timing can be simply transferred to the TIMER mode -"DISPENSE TIMING"- by pressing the **MEM** key

HELPFUL HINTS FOR MAKING DEPOSITS



1. Hold the barrel at approximately 60° ($\pm 20^\circ$) angle (Fig. 1).
2. After making deposit remove tip as shown (Fig. 2).
3. Do not permit the liquid to flow back into the controller as shown in Fig. 3.



4. Increase or decrease size of dots by either:
 - Increasing or decreasing time only
 - Increasing or decreasing pressure only
 - Increasing or decreasing size of tip
 - Increasing or decreasing any combination of time, pressure and size of tip.
5. To increase pressure, turn the pressure regulator clockwise. To decrease pressure, first turn the pressure regulator counter clockwise past the value desired and then clockwise to the value desired.
6. For thin liquids, like water, you can prevent dripping by slowing turning the vacuum control knob counter clockwise. **WARNING** – Too much vacuum will cause bubbles and suck liquid back into the controller thus creating permanent damage to the unit.

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.



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