



INSTRUCTION MANUAL

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Introduction

The MiniWash series is a simple solution for dispensing a single formula at up to 8 oz/min. The dispenser can be triggered with a signal or with an optional push button switch, which can be mounted up to eight feet away. The pump comes with a standard EPDM squeeze tube and can be used in a wide array of dosing applications.

Safety



FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE EQUIPMENT LEADING TO IMPROPER OPERATION OR PRODUCT FAILURE. DEFECTS FROM A LACK OF ADHERENCE TO THESE INSTRUCTIONS ARE NOT WARRANTABLE



IMPORTANT: DISCONNECT ALL POWER PRIOR TO SETTING UP THIS DISPENSER.

Technical Specification

Function	Specification
Power Connection (Cable 1)	100-240 VAC
Signal Connection (Cable 2)	20-240VAC (LO or HI)
Power Consumption	5W
Fuses	400mA 250VAC
Pump Flow Rate	8 oz/min
Max Suction Height	5 feet
Power the pump using cable 1 with the plug. When this unit is powered, the pump is ON. Connect cable 2, identified by the word SIGNAL to the washer signal. Proceed with programming as shown in this manual.	

MiniWash 100—Programming Guide

Getting Started: When the pump is powered, the display shows ON. Flip the switch on the bottom to “OFF” to enter programming mode. The display will show “SBY”. The dosing and delay times are 0-999 seconds, the lock-out time is 0-999 minutes.

1. Accessing the menus

- Move the switch to “OFF”. SBY will display.
- Press the PRG key until the display shows “P---”.
- Use the PRG to scroll between values. Use the ▲ to change the number. The default is 000.
- Press the ▲ and PRG key to enter your access code. The default is 000.
- The maximum value is 999.
- The first menu will show a green 1 on the left.

Menu Structure: Indicated by the green number on the left.

0: old access code

n: new access code

1: Delay Time

2: Pump Time

3: Lockout Time

4: Setting voltage tolerance

5: Calibration

Hld: save program using PRG key

Esc: Leave the menus

Menu 1,2,3: Manually set the pump time, delay, and lockout times.

- Enter the programming mode.
- Press the ▲ key to select the menu.
- Press the PRG key to scroll between digits.
- Press the ▲ key to change the value.
- The maximum value is 999.
- Press the PRG key. All of the display’s digits will stop blinking.
- To save the settings, make sure none of the display’s digits are blinking, scroll the menu using the ▲ key until “Hld” appears on the display and then press PRG key. The pump returns to standby mode and “on” appears on the display.

Menu 4: Selecting the voltage tolerance.

- Press the PRG and ▲ key to set your tolerance.
 - LO = 20-240VAC; HI = 70-240VAC

Menu 5: Calibrate using volume

- Enter the programming mode.
- Press the ▲ key until the display shows “5CAL”.
- Press the PRG key, CAL begins blinking.
- While holding a measuring cup or flask under the output of the pump, press the ▲ key and release when the pump starts (display starts counting). Let the pump run until desired amount of chemical is dispensed then press the ▲ key again to stop. (display shows the dosing time). The OPL Mini run time is now programmed. Repeat these steps if new volume is required.
- Press the PRG key the display shows “5CAL”.
- To save the settings, scroll the menu using the ▲ key until “Hld” appears on the display and then press PRG key. The pump returns to standby mode and “sby” appears on the display.

When finished programming, move the switch back to the “ON” position.

Changing access code

- Enter the programming mode.
- Press the ▲ key until the display shows “o+old access code”.
- Press the PRG key the display shows “n+old access code” and the red display’s first digit begins to blink.
- Press the ▲ key until the blinking digit displays the desired value.
- Press the PRG key. The next digit blinks.
- Press the ▲ key until the blinking digit displays the desired value.
- Press the PRG key. The next digit blinks.
- Press the ▲ key until the blinking digit displays the desired value.
- Press the PRG key. All of the display’s digits stop blinking.
- To save the settings, while none of the display’s digits are blinking, scroll the menu using the ▲ key until “Hld” appears on the display and then press PRG key. The pump returns to standby mode and “on” appears on the display.

Other Information

Wiring Directly to Washer Extractor Signals:

When using the black cable labeled "Signal" to wire directly to a washer extract signal #1, insert the BROWN wire to the signal or power side and insert the BLUE wire to the common side. This will allow you to run the pump in relay mode or signal mode where it remains on for the duration for the programmed signal time.

Connecting Push Button Remote:

Unscrew small, square black cap on left side of the MiniWash 100 pump. Attach small, square black connector on the end of the remote cable to the MiniWash 100 pump and tighten screw until it is snug. DO NOT over-tighten connector or you can damage the connection.

Priming The Pump:

Press the switch on to "MOM" (Momentary Switch). This will prime the pump for the dosing time that is programmed.

Default Settings:

As soon as the pump is powered, the display shows "8888" for approximately 0.3 seconds, during which the pump runs a check: If the parameters cannot be read properly from EEPROM, the display shows "FAIL" and the pump remains on standby. The default parameters can be reset using the ▲ key (pressed for 4 seconds).

The default settings are:

Delay time = 005

Dosing time = 055

Lock-out time = 000

Trigger signal = HI

Calibration = CAL

Old password = 000

After the default settings have been reset, these settings can be modified from the programming menu.

To Exit Programming:

To exit programming and return to the main menu, scroll the menu using the ▲ key until "ESC" appears on the display. Now press PRG key. The pump returns to standby mode and "Sby" appears on the display. If you changed any values, the settings will NOT be saved by exiting this way. Move the switch back to "ON" to operate.

Troubleshooting

Problem	Solution
The pump will not draw chemical	<ol style="list-style-type: none">1. Check the the foot valve for debris.2. Check the suction line for cracks or a break in vacuum.
The pump will not dispense chemical	<ol style="list-style-type: none">1. Make sure the pump is powered.2. Check the suction tube to make sure there are no cracks.3. Check the programming to make sure a run time is programmed.
Error Code: "1Alr"	<ol style="list-style-type: none">1. If the motor is excessively overloaded (i.e faulty tube) the pump executes stop/restart motor cycles (the stop time increases at every STOP: 0.5 sec . ->10 sec.) to avoid overheating. Replace the tube. <p style="text-align: right;">Page 4</p>

Terms & Conditions

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Lavo Solutions, LLC

Worldwide Headquarters
23192 Verdugo, Suite #D
Laguna Hills, CA 92653

O: 949-377-1250

W: www.lavosolutions.com