



## 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—Quick Start 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.**

**O:** 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.

# Troubleshooting

Problem	Solution
The pump will not draw chemical	<ol style="list-style-type: none"><li>1. Check the the foot valve for debris.</li><li>2. Check the suction line for cracks or a break in vacuum.</li></ol>
The pump will not dispense chemical	<ol style="list-style-type: none"><li>1. Make sure the pump is powered.</li><li>2. Check the suction tube to make sure there are no cracks.</li><li>3. Check the programming to make sure a run time is programmed.</li></ol>
Error Code:  "1Alr"	<ol style="list-style-type: none"><li>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 . -&gt;10 sec.) to avoid overheating. Replace the tube.</li></ol>

## Other Information

### 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.

### 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.

# Terms & Conditions

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Company warrants its Goods to be free from material defects in material and workmanship for a period of one year except: i. when Goods have been modified following delivery and/or subject to improper handling, storage, installation, operation, or maintenance unless those modifications have been authorized in writing by Seller. ii. when an item is purchased by Company as a component part of the Goods, except to the extent to which such item or items are covered by the warranty, if any, of the original manufacturer. iii. when an item which is a component part of the product has been furnished by Buyer. iv. no warranty of a component part shall extend beyond the warranty period of the device in which such component part is incorporated. b. There is no implied warranty of merchantability or of fitness for particular purpose and there are no warranties of any nature except as set forth in paragraph 3 herein. Any claim by Buyer made pursuant to Company's warranty must be made in writing. Company shall have the right to inspect the Goods claimed to be defective and shall have the right to determine the cause of such alleged defect. All Goods replaced or repaired by Company under its warranty shall be replaced or repaired F.O.B. Company's facility. Buyer must notify Company, in writing, within fifteen (15) days from receipt of Goods of any obvious defect in the product, or shortages, or Company shall have no obligation to correct such defect. Company shall have the option of re-inspection at Buyer's plant or its own before allowing or disallowing Buyer's claim. Defects that do not impair service shall not be a cause for rejection or recovery under any warranty. Buyer assumes full responsibility for the use and application of the product. Buyer accepts Company's design and material selection and specifications in placing this order unless other specifications are agreed to in writing by both parties prior to the manufacture of Goods by Company. Statements and data relating to Products on Seller's literature and website are not intended to define the performance of the product in actual usage or in combination with other equipment or processes. These statements should not be used by Customer solely as an indication of performance or suitability for specific applications or uses.

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