

## Front Panel Controls and LCD

The diagram shows the front panel of a Sonifier device. The LCD screen displays the following information from top to bottom:
 

- Waveform icons for CONT. (continuous) and PULSE (pulsed) modes.
- MAX PULSE icon with a plus/minus symbol.
- %A icon with a plus/minus symbol.
- ON/OFF indicators for TOTAL and PULSE.
- PROGRESS indicator with a blue dot.
- Temperature display: 68.3 °F.
- Unit symbol: μ.

 Below the LCD are several control keys:
 

- Navigation Keys: Up, Down, Left, Right, and Enter keys.
- Preset Key: A key labeled PRESET.
- ESC Key: A key labeled ESC.
- Pause Key: A key with two vertical bars.
- Start/Stop Key: A key labeled START STOP.
- Test Key: A key with a test tube icon.
- Microtip Key: A key with a μ symbol.
- Reset Key: A key with a circular arrow icon.

 Callouts provide detailed instructions for each key and LCD element.

**Continuous or pulsed ultrasonics**

**Time, energy, and temperature control modes.** Program a Pulse Temp and a Max Temp to enable True Temperature Control

**Fully programmable pulsing, in time or energy (joules)**

**Experiment progress indicator**

**Process monitoring**

**Navigation Keys**  
Press the Up key or Enter key to initiate a change to the current settings, then use the Up, Down, Left, and Right keys to adjust values.

Press the Left and Right keys to select control modes, to move horizontally between digits, and to move between different result screens.

Press the Enter key to accept control setting changes.

**Preset Key**  
Press the Preset key to select a memory location to save the current sample-processing program, or to recall stored settings.

**ESC Key**  
Press the ESC key to return to the ready screen when modifying control settings.

**Pause Key**  
Press the Pause key to pause an ultrasonic cycle. Press the Pause key again to resume current cycle.

**Start/Stop Key**  
Press the Start/Stop key to turn ultrasonics on/off.

**Reset Key**  
Press the Reset key to reset errors and alarms.

**Test Key**  
Press and hold the Test key to turn on sonics.

**Microtip Key**  
Press the Microtip key when using a microtip probe. This limits amplitude to 70%, thus preventing damage to the probe.

Confirm Settings

Start-up Test

Micro Tip

Reset Alarm

**CAUTION**  
- PRESS μ BEFORE USING MICROTIP  
- MAXIMUM 70% AMPLITUDE ON MICROTIP

# Sonifier®

## Operational Sequence

The Sonifier features varied parameter settings to precisely control the ultrasonic treatment of your sample.

The delivery of ultrasonic energy may be precisely controlled by selecting the mode that best suits your application.

For more information, refer to your Sonifer manual.

## Setting a Timed Experiment

1. Turn on power and wait for the LCD to show rdy (ready) and current mode icons on the top two rows.
2. Press the Up key once to get into operating mode selection. Current selected operating mode icon will blink.
3. Use the Left and Right keys to select Continuous mode, then press the Enter key to confirm the selection. Navigation will continue to the control mode selection.
4. Use the Left and Right keys to select Time mode, then press the Enter key to confirm the selection. Navigation will continue to the parameters area.

5. Time parameter numbers will flash. Use the Up, Down, Left, and Right keys to enter the desired value, then press the Enter key to confirm the selected value.

**NOTICE:** When setting parameters, pressing the ESC key will take you back to the rdy screen. Any parameter changes that were not confirmed using the Enter key will be lost.

## Save/Load Sample Processing Programs (Presets)

### Save Preset

1. Press the Preset key while on the ready screen. The Preset icon, 'LO', and two digits which indicate the Preset memory locations will appear on the LCD.
2. Press the Left and Right keys to change the parameter from Load to Save. The Preset icon, 'SA', and two digits which indicate the Preset memory locations will appear on the LCD.
3. The digits under the Preset icon show the preset number. Select the Preset number where you wish to save the current parameters using the Up and

Down keys, then press the Enter key. This will save the current settings to the selected memory location and will return to the ready screen.

**NOTICE:** Press the ESC key to exit without saving the preset.

### Load Preset

1. Press the Preset key while on the ready screen. The Preset icon, 'LO', and two digits which indicate the Preset memory locations will appear on the LCD.
2. Select the Preset number from where you wish to load the parameters using the Up and Down keys, then press the Enter key. This will load the saved preset parameters and will return to the ready screen.

**NOTICE:** Press the ESC key to exit without loading a preset.



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