

2. Calibration

Set the "OFF-RUN-HOLD" switch to "RUN." Press "SPL (CAL)." Insert microphone into 897-2 calibrator. Calibrate the 50/100 range with 94dB or the 80/130 range with 114dB. To record this calibration for later data printing, press and hold the "SPL (CAL)" button until "CAL" flashes on the display.

3. Sound Level Meter

To use as a sound level meter, set "OFF-RUN-HOLD" switch to "RUN." Press the "SPL" and the "dBA" indicators will display. Select desired range with the range switch on the top. The dosimeter functions (% DOSE, INT 60, Leq) will not operate.

4. Dosimeter Operations

To use as a dosimeter, check setup status then calibrate the instrument. Set the "OFF-RUN-HOLD" switch to "HOLD." Press and hold the "DOSE" button while moving switch to "RUN." Attach microphone to collar close to the ear. Turn lock to prevent tampering. After reading is completed, move switch to "HOLD." Print data if required.

5. Displays

For percent of dose exposure, press the "DOSE" button; the "% DOSE" indicators will display. For an 8-hour equivalent, time-weighted average (Leq), press the "Leq" button; the "dBA" indicator will display. For a continuous, integrated, 60-second average, press "INT (60 Sec)"; the "INT 60" and the "dBA" buttons will display. To display the number of 140dB (or greater) peaks, press the "DOSE" button twice.

6. Elapsed Time

To display the total elapsed time from when "RUN" was first selected, press the "TIME" button. If the colon flashes the display is Hours:Minutes, otherwise it is Minutes:Seconds.

7. Data Logger

When the Dosimeter is in "RUN" (and is not in the "SPL" mode), the values of "Leq" and "SPL" Max are stored once per minute, up to 30 hours. The position of the range switch and the time spent in "HOLD" or "SPL" are also stored. This information can be printed using the "DATA OUTPUT" feature. The "HOLD" feature will retain data without affecting "DOSE" or "Leq."

8. Parallel Data Output

Connect the parallel cable to the "DATA OUTPUT" connector and to a printer. Move the "OFF-RUN-HOLD" switch to "HOLD" and press the print button. The display will show "PRN" while the data is printing. Press any key except PRINT to stop printing.

9. RS-232 Serial Data Output

For "SETUP PRN" mode 1, output data is mainly for a computer. For "SETUP PRN" mode 2, output data is mainly for a printer. The "SETUP PRN" does not affect parallel data output. In either case, before starting data logging, be certain to set the correct baud rate (see SETUP instructions).

Connect the serial cable to the "DATA OUTPUT" connector and to the desired computer or printer. Move the "OFF-RUN-HOLD" switch to "HOLD" and press the "PRINT" button. The display

will show "PRN" while the data is printing. Press any key except "PRINT" to stop printing. To maintain maximum battery life, disconnect this cable when finished.

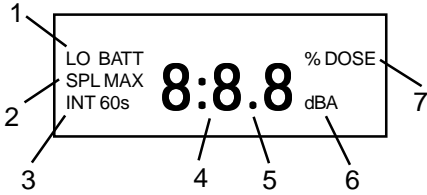
10. Hold Mode

When the "OFF-RUN-HOLD" switch is in "HOLD" all dosimeter functions are suspended and printouts will indicate "HOLD." All data is retained.

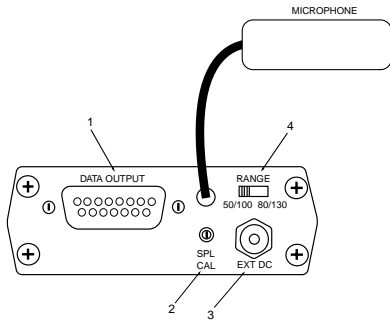
For complete instructions refer to the 897 Dosimeter Operators Manual 06-115891



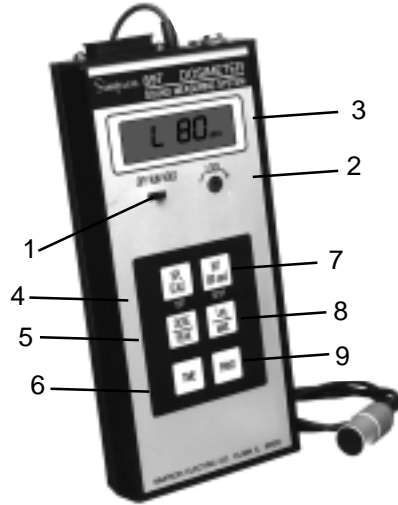
897 Dosimeter Sound Measuring System Quick Reference Card



1. Battery must be recharged
2. Sound level meter mode
3. 60 second integrated mode
4. Flashes when displaying Hours:Minutes
5. For dB and % amounts
6. By itself for leq
7. Dosimeter Function



1. Use cable to connect to printer or computer.
2. Adjust when microphone is inserted into calibrator.
3. Battery charger input
4. Selects desired sound pressure range



1. Use "RUN" for measurements to retain print data. Use "HOLD" to retain print data.
2. Mechanical lockout prevents tampering.
3. Display.
4. Press once for "SPL." Press and hold for "CAL."
5. Press once for "DOSE." Press again for "PEAKS."
6. Press once for "ELAPSED TIME:HRS:MIN or MIN:SEC"
7. Press once for 60 SECOND INTEGRATION. Press additionally for SETUP DISPLAYS. Press again for MAXIMUM SPL.
9. Must have cable connected and be in "HOLD."

1. Setup

To modify the operational modes from power "OFF", press and hold "SETUP" while switching into "RUN." Wait for the "Lc" display then use the "SETUP" button to modify the flashing digits. When finished, switch to "OFF." To view the modes without modifying them, press the "SETUP" button repeatedly.

CRITERION LEVEL

Lc84

Choose 70, 80, 84, 85, or 90

THRESHOLD

T; 75

Choose any level between 50 and 99dB

EXCHANGE RATE

RT 5

Choose 3, 4 or 5

LEQ UPPER LIMIT

; :130

Choose 115 or 130

PRINT MODE

PRN;

Choose Pin 1 or Pin 2

UNIT ID

1d25

See ID number

BAUD RATE

9600

Choose 300, 600, 1200, 2400, 4800 or 9600 baud

REAL TIME

23:30

Set present time using our 24-hour clock

DATE

1-:23

Set current date

MONTH

2-:09

Input current month

YEAR

5-:02

Input current year