

Model 820 Key Functions

White	Primary function keys, push button directly
Shift	Press SHIFT key first to access blue keys
Arrow	Change or modify info in fields, use w/other keys for other functions
Keys	Functions
BATT	Percentage power remaining in 9 V battery
CAL	Calibration information and control
Cancel	Return to previous function or cancel present function (acts as an ESCAPE key to exit out of a menu)
DOSE	Dose and Projected Dose %
ENTER	Enter new parameters selected by user
EXCD	History for noise exceeding a programmed level
HIST	Short interval Leq time history
INTV	Statistical Interval History
LDL	Allows user to recalculate TWA, SEL, dose, projected dose readings with new exchange
LDN	TWA with 10 dB penalty
Leq	Equivalent Level=TWA based on 3dB
Lmax	Maximum SPL for overall measurement
Lmin	Minimum SPL for overall measurement
Ln	SPL exceeded n% of run time, 4 user selectable Ln's shown
LOCK	Access to lock system
LOG	Log of all Run/Stop actions which start /stop data taking process
MEM	Displays available memory & number of stored records
OFF	Turn 820 off
ON	Turn 820 on (when on acts same as "Cancel")
PEAK	Highest weighted peak detector output level with date and time of event
PRINT	List of reports on scroll, key name for each one
RCL	EEPROM and RAM registers
RESET	Restarts a measurement by erasing values just measured
R/S	Start and Stop measurements
SEL	Sound Exposure Level is the total energy for 1 s
SETUP	Access to parameters by number or key
SLM	Current Sound Pressure Level
STR	Storage registers for parameters and calibration (0-9)
T.A.	Time Weighted Average and German Takt Maximal levels
TIME	Date and time last reset or measurement start
TIMER	Permits unattended measurements
UWPK	Highest unweighted peak detector output level with date/time of event

Alpha-Numeric Keyboard Layout

↑	↓	←	→
+	7	8	9
-	4	5	6
Shift	1	2	3
Cancel	0	.	Enter

Standard Keyboard.

%	*	↔	↳
A	B	C	D
E	F	G	H
Shift	I	J	K
Cancel	L	M	Enter

Press **SHIFT** once to access these characters.

;	=	Clear	Space
N	O	P	Q
R	S	T	U
Shift	V	W	X
Cancel	Y	Z	Enter

Press **SHIFT** twice to access these characters.

&	@	\$	\
!	?	<	>
^	/	()
Shift	'	"	:
Cancel	#	,	Enter

Press **SHIFT** three times to access these characters.

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Alpha-Numeric Keyboard Layout

Alpha-numeric keys are available to enter 3 lines for the Company Name and 1 line for Measurement Title. To enter company and measurement information:

- Press **RCL SETUP** **Modify** **02** **Enter**
- Choose name for reports and enter using alpha-numeric keypad as shown at left. Note that multiple shift presses are necessary to enter certain characters
- Press **Modify** and choose letters for name
- After entering name, press **Enter** **▼** to move to next line
- Press **Modify** and enter letter for line 2
- Press **Enter** **▼** to move to line 3
- Press **Modify**, enter letters for line 3,
- Press **Enter** **▼** to move to line 4, and enter the Measurement Title
- Press **Enter** (name appears on main screen)
- Press c to return to main screen

Setup Key Functions by Number

- All parameters are accessed through **RCL SETUP** key
- Each parameter is assigned a parameter number
- Press **RCL SETUP**. Press **Modify**
- Enter item # of parameter (820 Manual chap 8) and press **Enter**. Time, Day, Week, parameters 6-8
- Scroll through parameters using **▲** **▼**
- Top of parameters list: Press **SHIFT** **▲**
- Bottom of Parameter list: **SHIFT** **▼**

Setup Key Functions by Key

Major parameters (listed on keypad) are accessed by pressing R and desired parameter key or by pressing **RCL SETUP**, **SHIFT**, and desired parameter key. For example, to access the interval parameters, press **RCL SETUP** **MEM** **INTV**.

Lock Parameters

- Access Lock Parameter: **RCL SETUP** **SHIFT** **LOCK EXCD**
- Personal password: **Modify**, enter 1-8 characters, **Enter**
- Lock Options: parameters 28-34
- Unlock system: **SHIFT** **LOCK EXCD** **Modify** enter password, **Enter**

SLM Key Options

Current SLM, Min, Max, Pk, UW, Leq, SEL; Alm Time, Temp, and serial communications are available by pressing **CAL SLM** **▼** **▲**

Setup Storage Registers

- Press **SHIFT** **STR PRINT** **▼** [repeated **▼**] cycles through setup storage registers 0 to 9] press **Enter** to store settings
- Press **SHIFT** **RCL SETUP** **▼** [0 to 9] **Enter** to recall settings

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Setup Key Functions by Key

Major parameters (listed on keypad)

Quick User Guide

Model 820 Sound Level Meter



820 User Manual Cross-Reference

Function	User Manual Page
Alpha Characters	4-3
Battery Check	2-10, 5-13
Calibration	3-1
Glossary	C
History Functions	7-1
Keypad and Key functions	2-1
Lock Parameters	6-5
Memory Check	5-14, 9-1
Parameters	8-1
Printing a Report	10-1
Reset Stored Data	8-1
Screen Symbols	2-8
Storage Registers	8-4
Take a Measurement	5-1
Timer Settings	6-1

Larson-Davis

1681 West 820 North • Provo, UT 84601
Ph. (801) 375-0177 • Fax: (801) 375-0182
<http://www.lardav.com>

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Listen with Larson-Davis

Take a Measurement

- Turn on:
- Start the measurement:
- Stop the measurement:
- Turn off:

Reset Stored Data

- Reset stored data:

Calibration

- Reset 820: Press "Reset all Data?"
- Check polarization:
- to
- Enter calibration level:
- , enter SPL value of calibrator, i.e.
- To change calibrator serial number:
- Enter serial number:
- Seat microphone fully in calibrator cavity
- To calibrate: . Activate calibrator
- Press and choose
- If level not stable 820 will exit calibration

Timer Settings (RT = Run Time)

(ST = Stop Time)

Access the Timer Parameters:

-
- Select option: [Repeated presses cycles through options]
- [Block] = RT1 on Run Date to ST1 on Stop Date
- [1/Day] = RT1 to ST1 each day from Run Date to Stop Date
- [2/Day] - RT1 to ST1 and RT2 to ST2 each day from Run Date to Stop Date
- Timer Run Date: , enter date e.g.
- Timer Stop Date: enter date e.g.
- Run Time 1: , enter Start Time,
- Stop Time 1: , enter Stop Time,
- Run Time 2: , enter Start time 2,
- Stop Time 2: , enter Stop time 2,

Memory Check

- Press

Battery Check

- Press displays % of battery remaining [repeated presses of displays firmware revision number and error messages]

Printing Report

Connect 820 to serial printer with CBL033:

- Set 820 parameters to match printer (baud rate, serial address, and handshaking)

To set printing options:

- = Setup options
- = All Disabled. Press S
- = Tailored Form
- = Short Form
- = Long Form

To print reports:

- = Setup List
- = Print Last
- = Histograms
- = Run Log
- = History Report
- = Interval History Report

Setup Parameter Number

System	1-20	
Timer	21-27	
Lock	28-34	
Cal	35-38	
SLM	39-50	
DOSE	51-54	
Ln Stat Levels	55-60	
EXCD Levels	61-65	
INTV HIST	72-79	
TIME History	80-87	
Tailored Report	89-113	
Add'l Functions	152-159	
EXCD/PassBy	161-163	
Real-time Reports	168-173	
Print Options	177-201	

Screen Symbols

- SsSs = (flashing) upper right hand side. Model 820 is stabilizing (approximately 45 sec)
- = Stop mode. No data is being taken (upper right hand corner of display)
- = Run Mode (upper right hand corner of display)
- O = (or V, L, D) Overload. These letters in succession replace the figure each 8 seconds when Overload occurs anytime during measurement
- f = (flashing) Function keys are used for different purpose in the current function
- n = (flashing) Numeric key input mode is active
- S,2,3 = key (multiple presses allow access to different areas of the alpha-numeric keypad)

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- Timer Stop Date: enter date e.g.
- Run Time 1: , enter Start Time,
- Stop Time 1: , enter Stop Time,
- Run Time 2: , enter Start time 2,
- Stop Time 2: , enter Stop time 2,

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