Meter Setup

The meter is usually used for either long term (24-hour) or short term (10 or 15-minute) readings. Most settings are the same between the setup, other than the time. Screenshots of each of the screens is below. If for any reason the meter has issues, plug into G4 software and perform a "format and restore". This will reset the factory presets.

It is easiest to do the setup while computer connected to the meter in the G4 software because you are able to type in all of the information screens rather than scroll through a rolling, master alphanumeric list, character by character.

NOTE: This is for LxT1 meters with serial number 2105 and 2106.

NOTE: Use NEW lithium batteries for each 24-hour reading. Remaining life of these lithium batteries can be used for short term readings. Regular alkaline batteries can also be used for short-term readings ONLY.

NOTE: do not use under 20% battery life, as corruption of files has occurred.

NOTE: previous noise analyst used 12V battery packs, but both currently have broken wiring. If/When the wiring is fixed, they should both work.

Images are for a 24-hour reading

NOTE: Only the CONTROL tab will be different for short term readings, where the time will be changed.

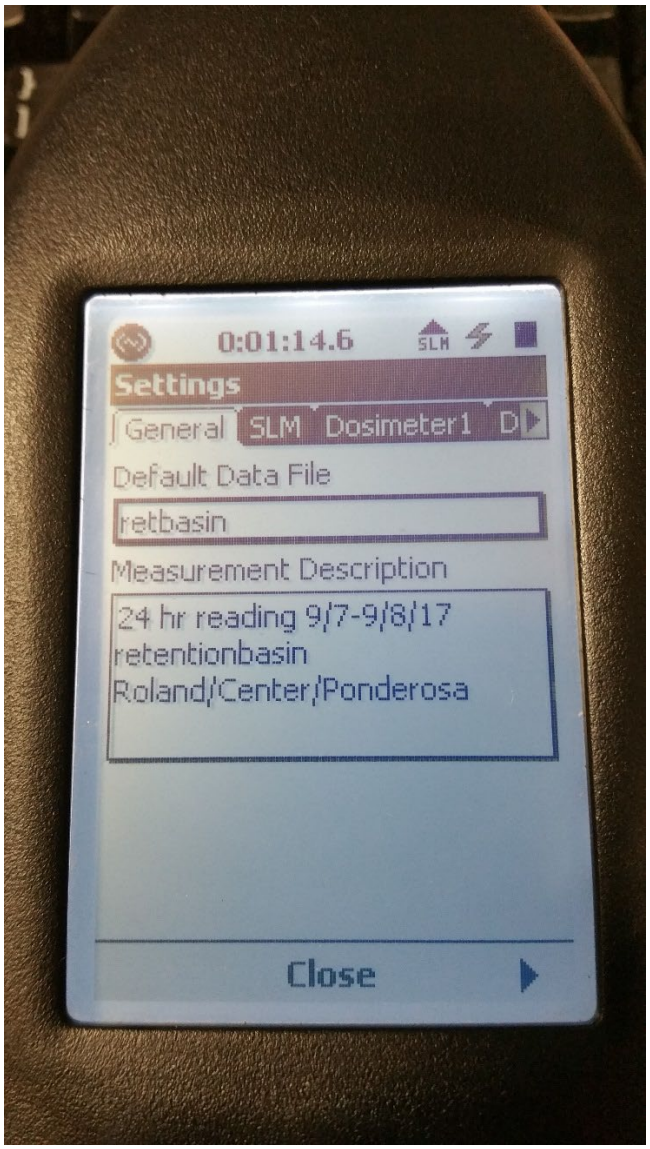
BOLD TYPE will instruct settings that should be changed. BOLD CAPS are the name of the subset to change. Regular type is for your information only, these will be the default settings and should not be changed. Image below to show what settings look like on the LxT1 831 meter. Settings can also be changed when meter is plugged into G4 LD Utility program from within the program. It is easier to type there, but manual entry on the meter may be the only option available in the field for adjustments.

To start adjusting settings manually, **Menu>Settings**.

General

DEFAULT DATA FILE: This area is max 8 characters. Make it some sort of identifying info (i.e. part of address, intersection abbreviations, etc.).

MEASUREMENT DESCRIPTION: This is where you put your full description. Many more characters are allowed.



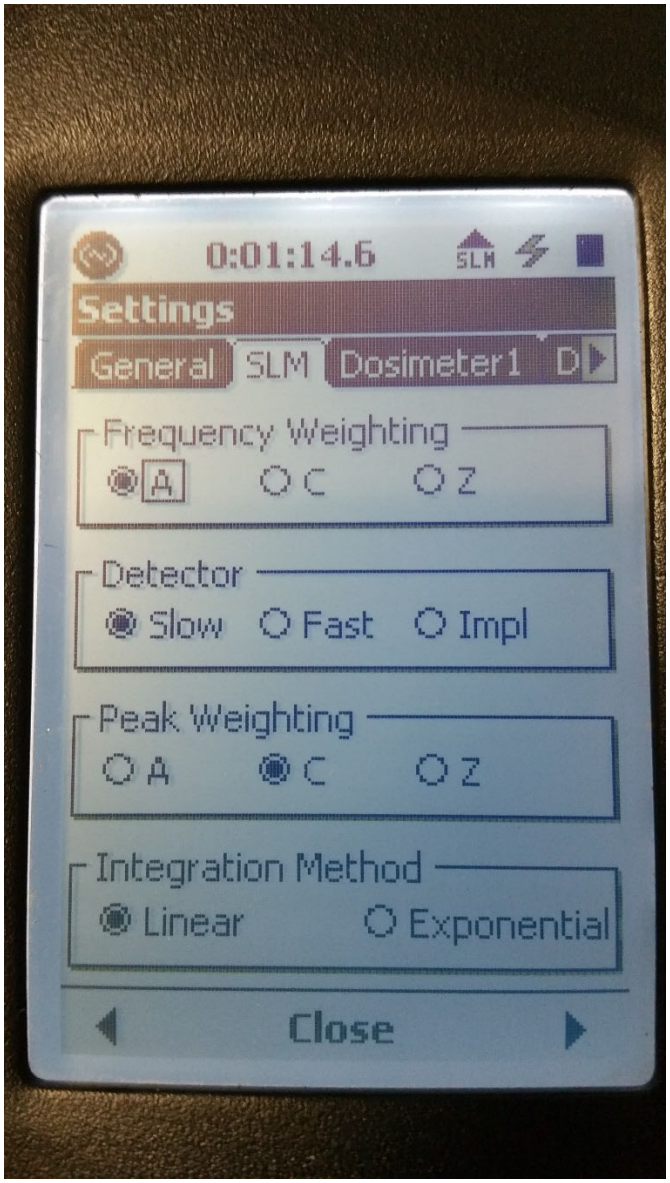
SLM

FREQUENCY RATING: A

DETECTOR: Slow

PEAK WEIGHTING: C

INTERGRATION METHOD: Linear

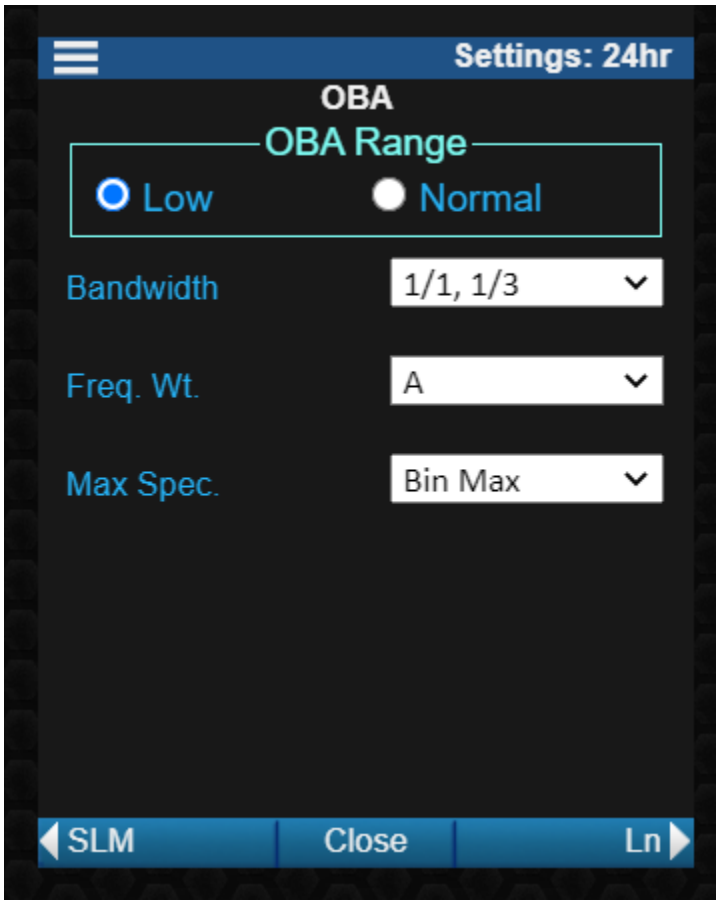


OBA

BANDWITH: 1/1, 1/3

FREQ . WT.: A

MAX SPEC.: Bin Max



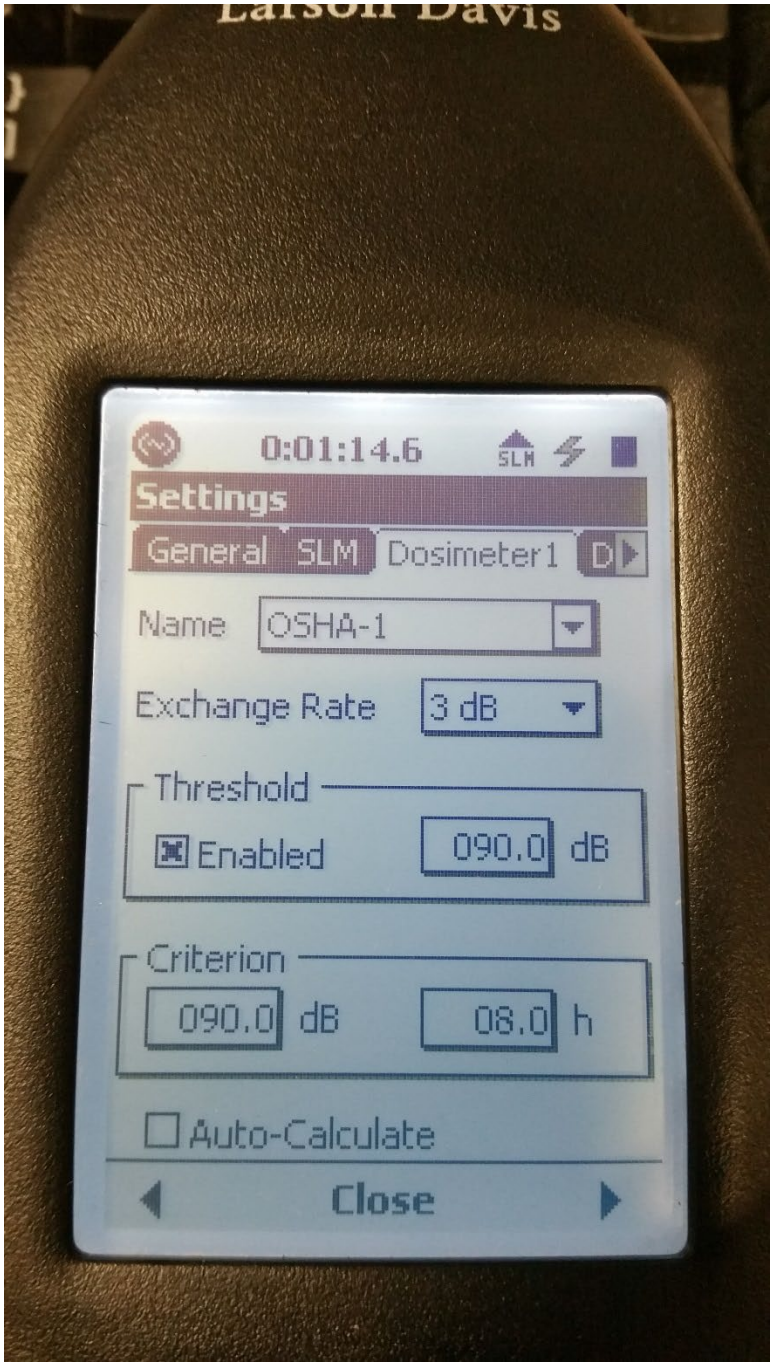
Dosimeter1

NAME: OSHA-1

EXCHANGE RATE: 5 Db

THRESHOLD: Enabled 90 dB

CRITERION: 090 dB 8 h



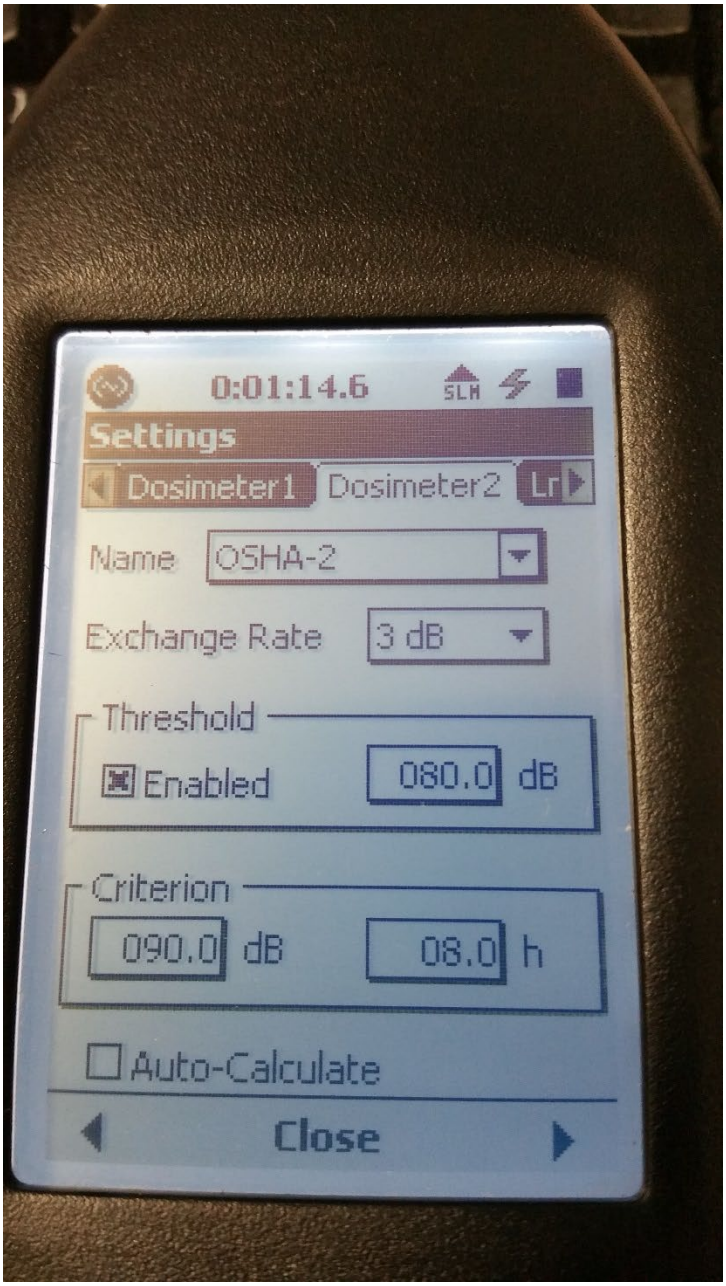
Dosimeter2

NAME: OSHA-2

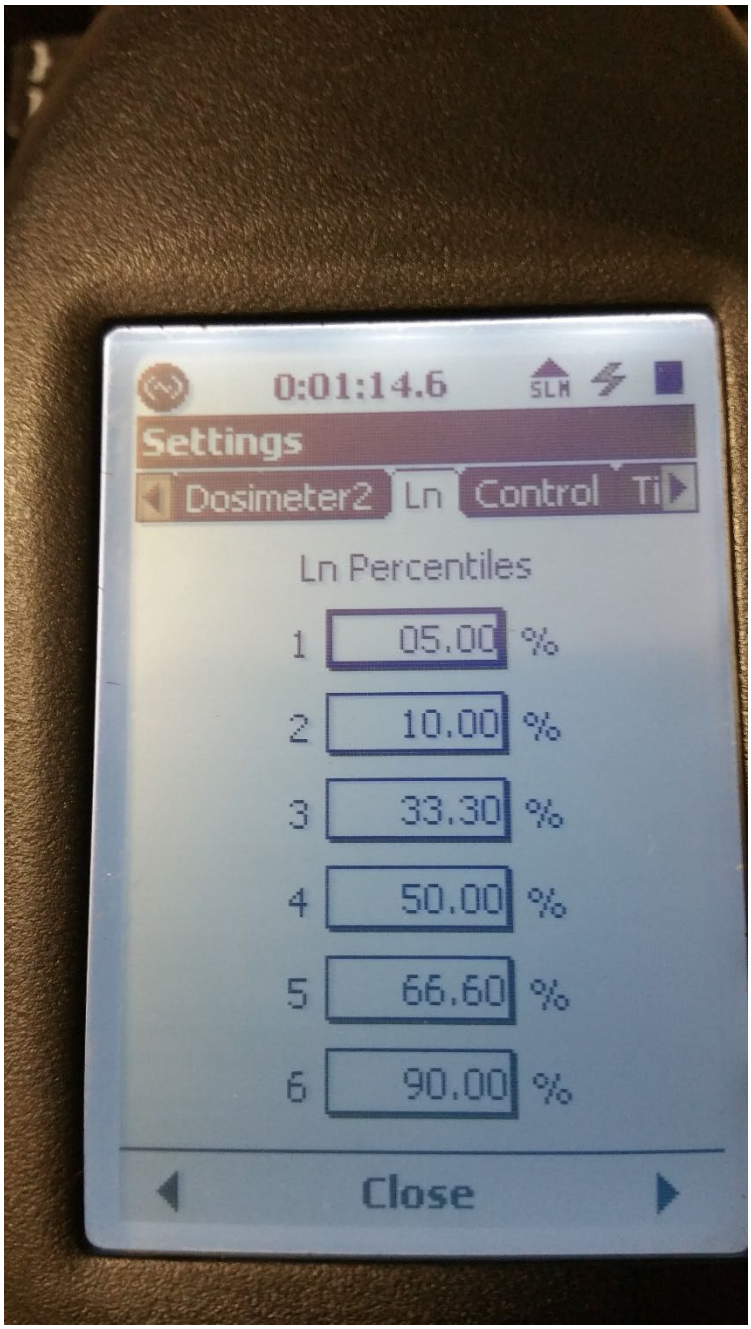
EXCHANGE RATE: 5 Db

THRESHOLD: Enable 80.0 dB

CRITERION: 090.0 dB 8.0h



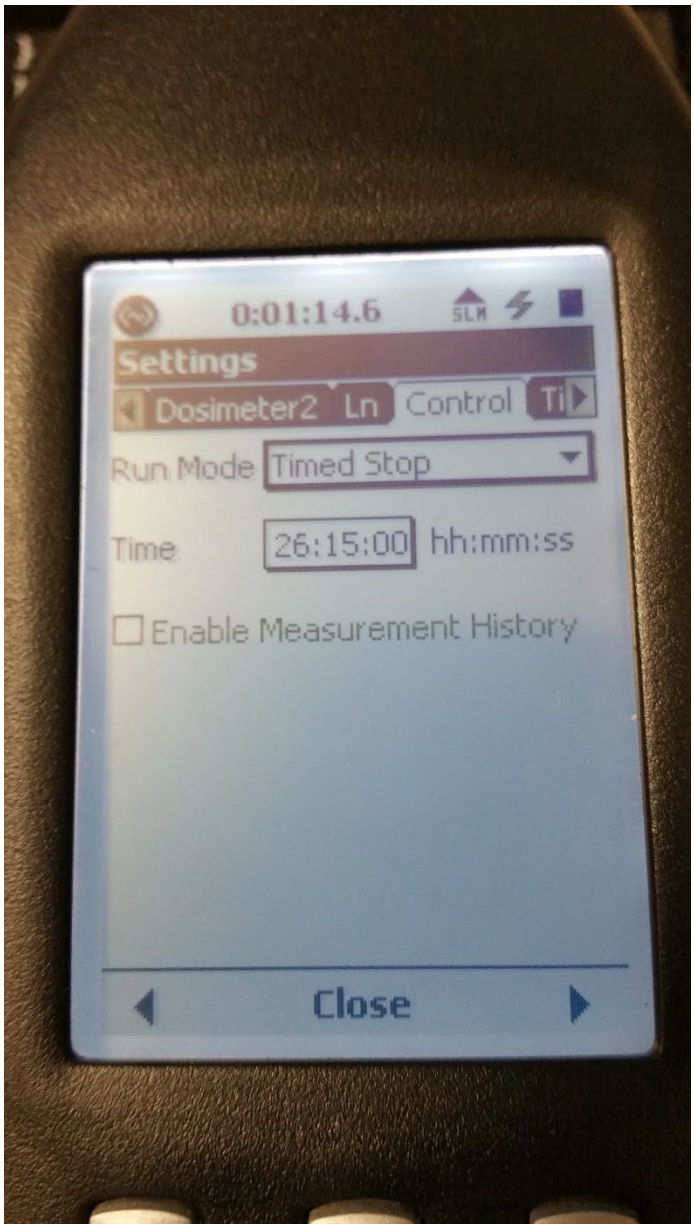
Ln


0:01:14.6
SLM
Settings
Dosimeter2
Ln
Control
Ti
Ln Percentiles
1 05.00 %
2 10.00 %
3 33.30 %
4 50.00 %
5 66.60 %
6 90.00 %
Close

Control

Run Mode: Usually will be Timed Stop

Time: 24 hours and 15 minutes for 24-hour reading. This sample reading was longer because second meter was set up in secondary location afterwards to compare at distance.

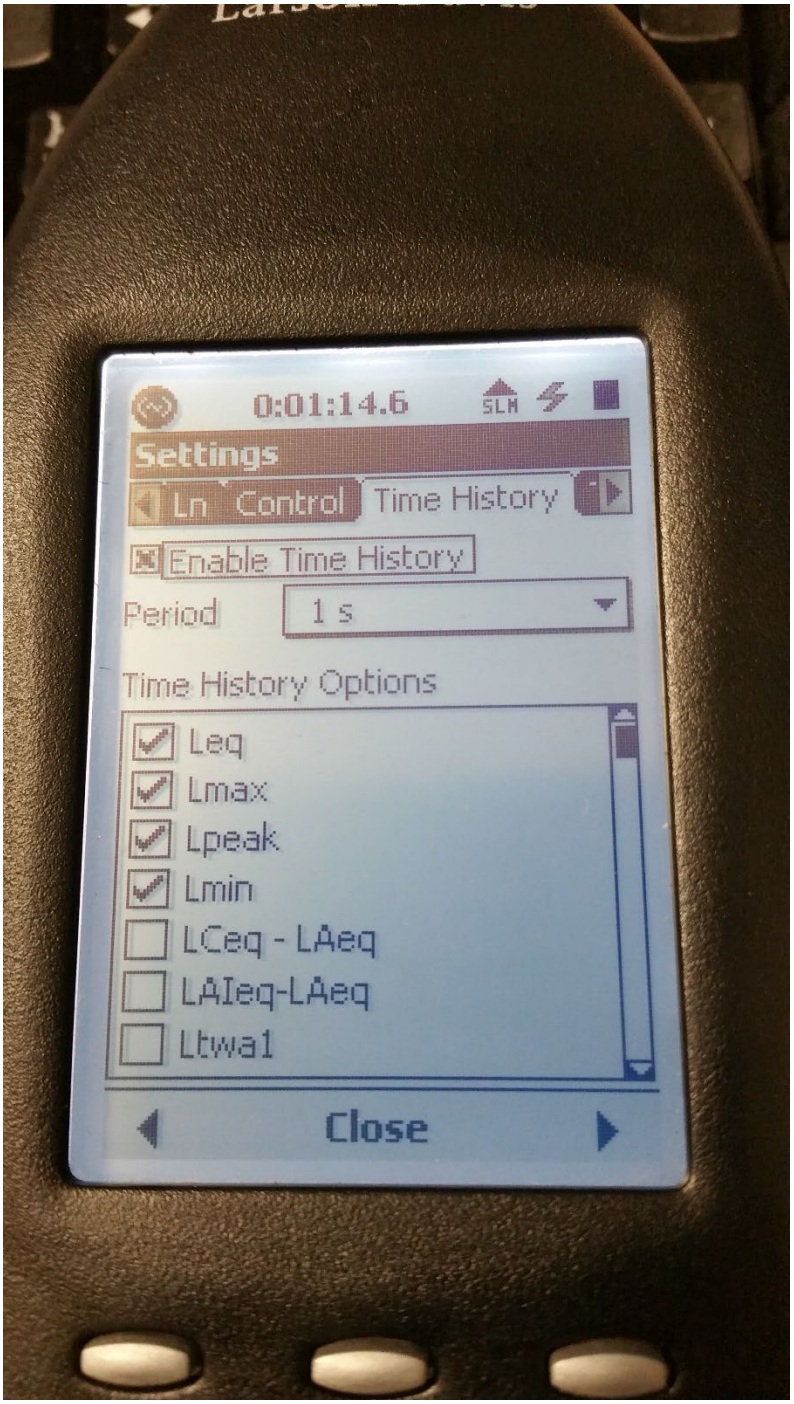


Time History -1

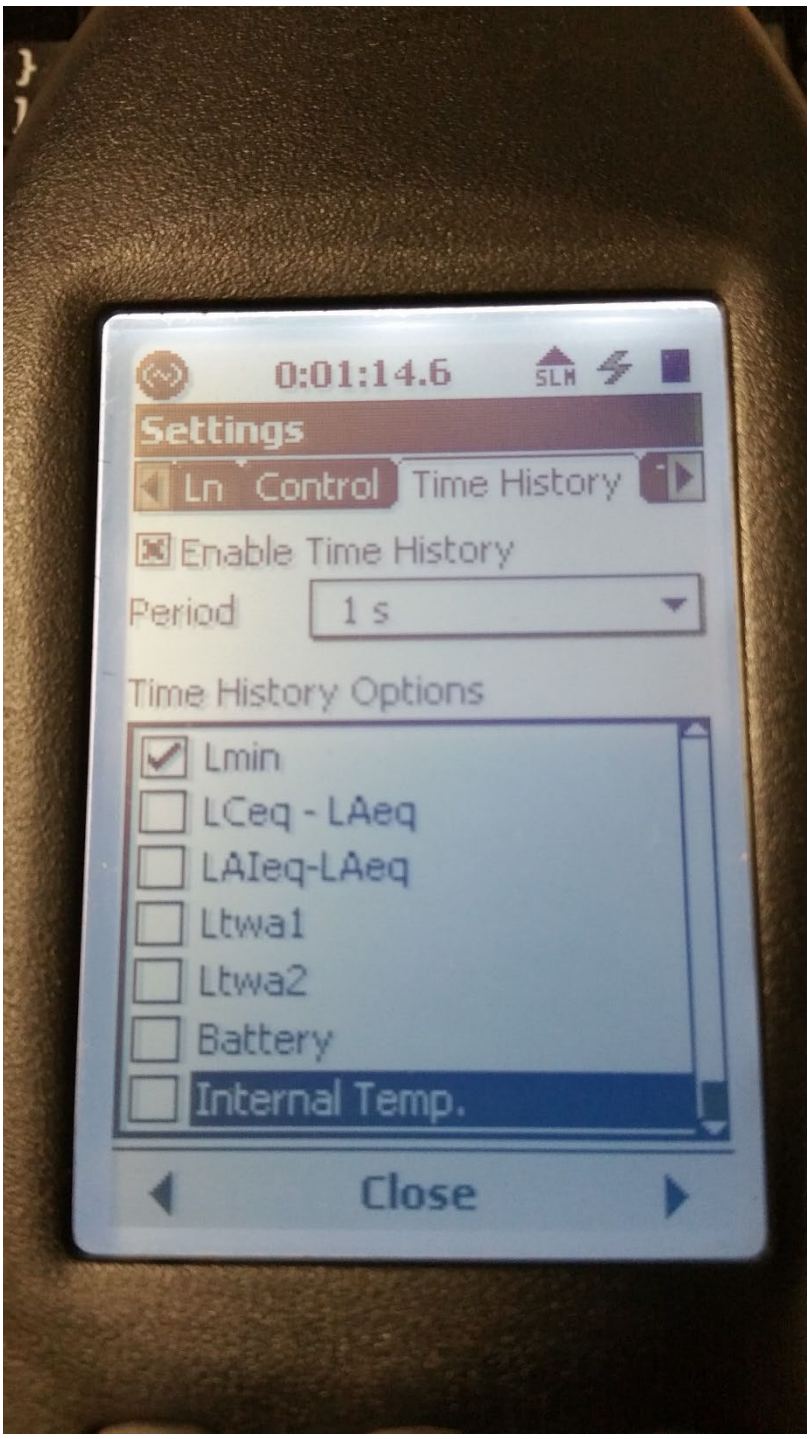
X Enable Time History

Period: I do 1 second. It produces lots of data, but it is easy to see trends with this much info

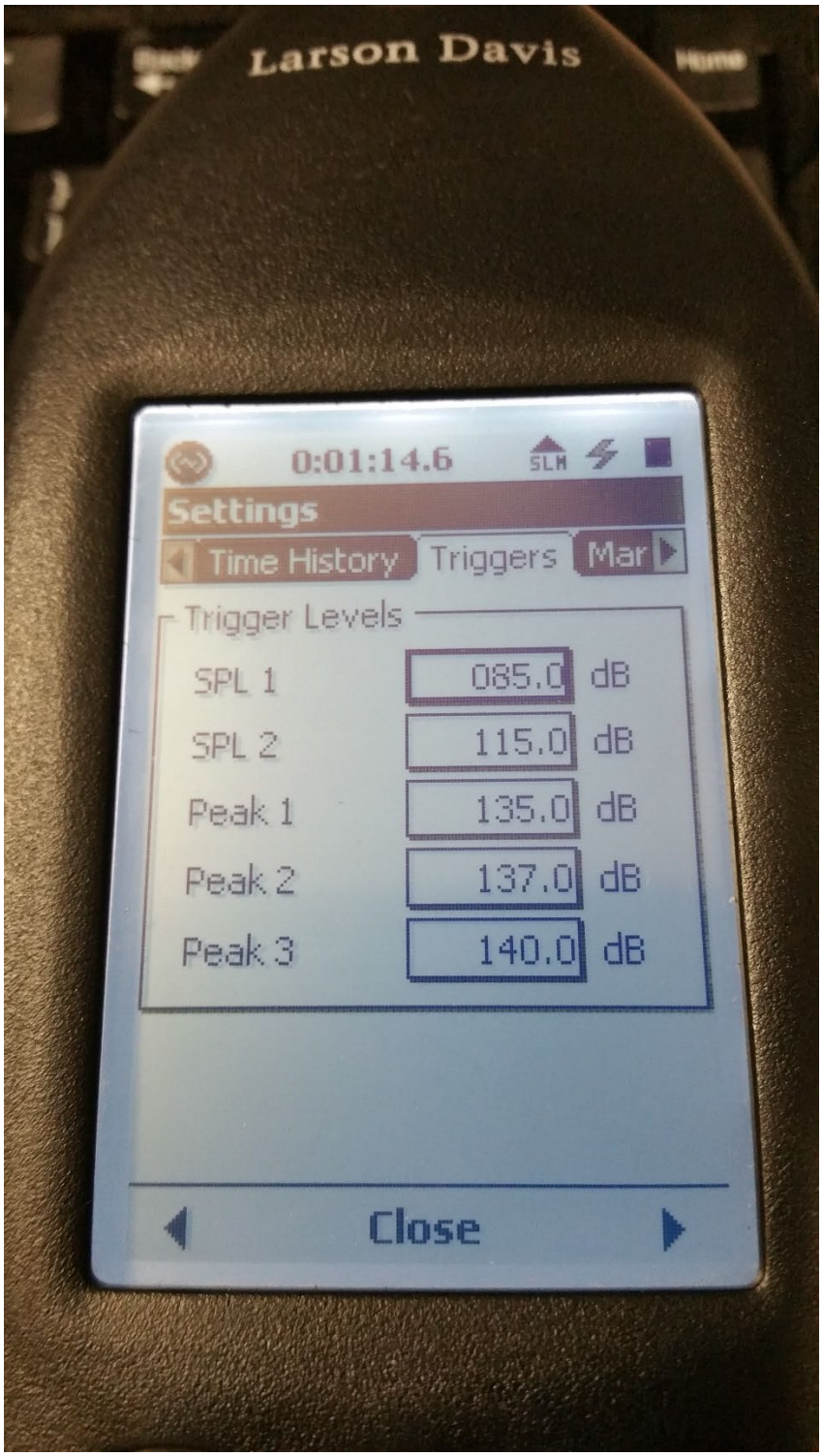
Sound meters shall be set to capture at least the L_{eq}, L_{max}, and L_{min}.



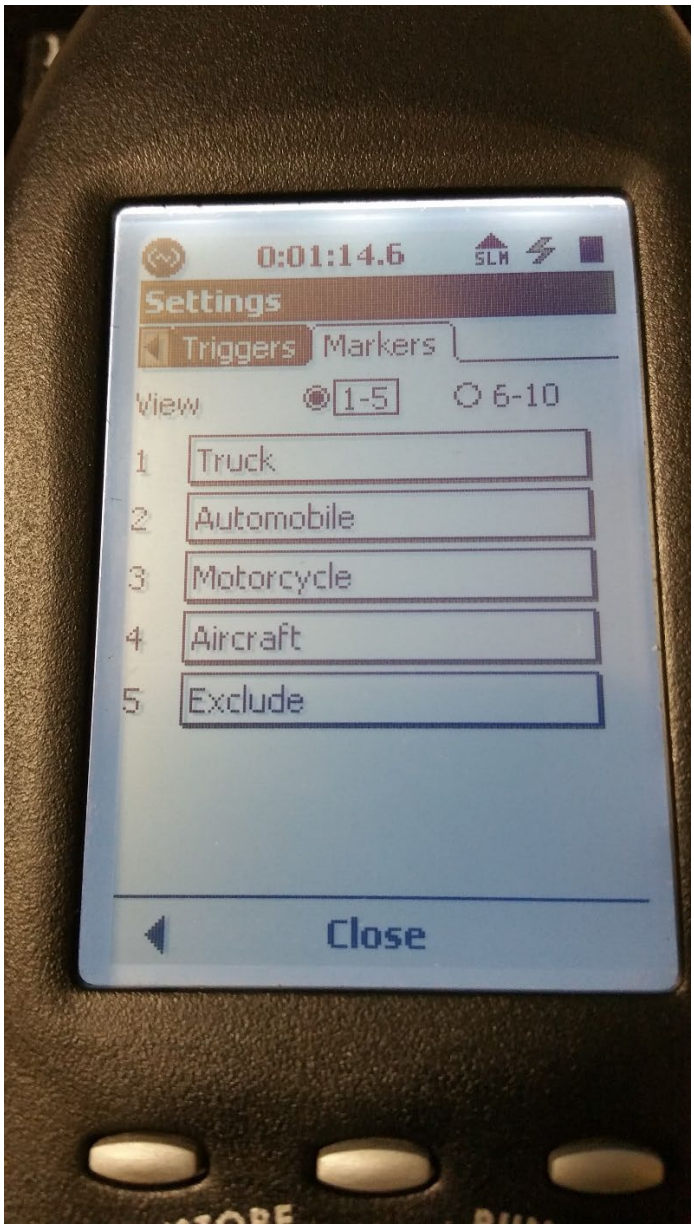
Time History-2



Triggers


Larson Davis
0:01:14.6
SLM
Settings
Time History
Triggers
Mar
Trigger Levels
SPL 1
085.0
dB
SPL 2
115.0
dB
Peak 1
135.0
dB
Peak 2
137.0
dB
Peak 3
140.0
dB
Close

Markers


0:01:14.6
SLM
Settings
Triggers
Markers
View
1-5
6-10
1
Truck
2
Automobile
3
Motorcycle
4
Aircraft
5
Exclude
Close