

# Norsonic 140 Set-up Guide & Features



CAMPBELL ASSOCIATES  
SOUND & VIBRATION SOLUTIONS

**Ni** Norsonic



# Front/Standby Screen Explained

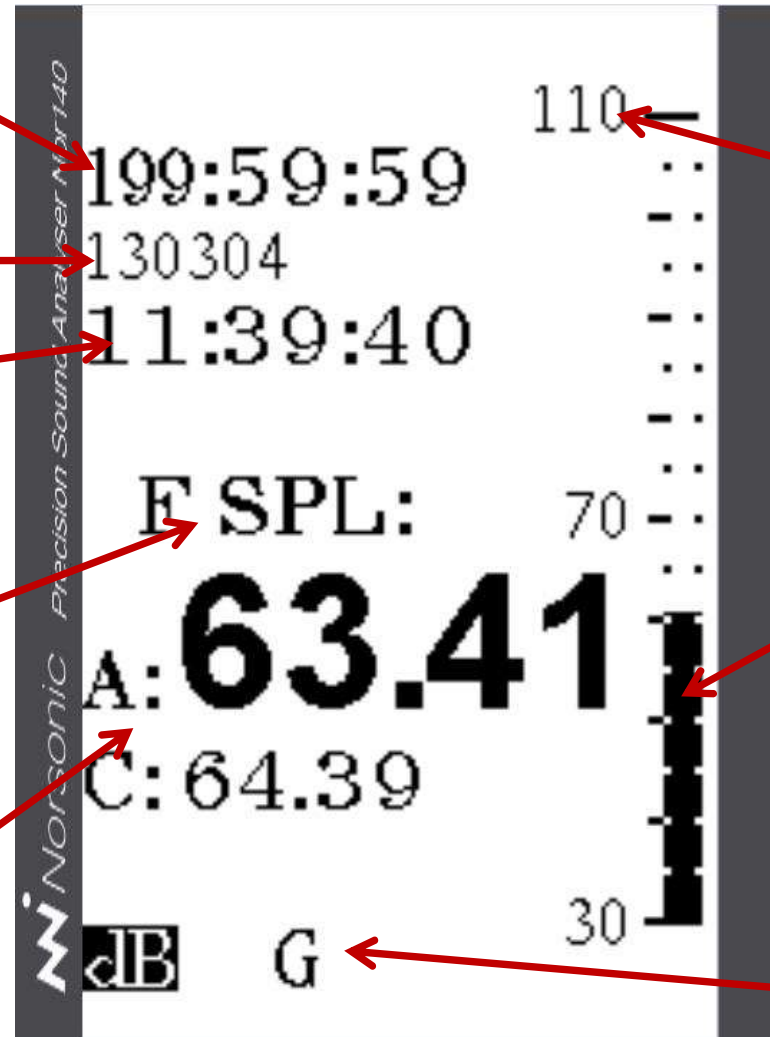
Current Measurement Duration

Current Date

Current Time

Time Constant & Function  
(Currently Fast Sound Pressure Level). Adjusted using keys 8 for Time Constant and 3 to change display function

A-weighted and 2<sup>nd</sup> network  
Weighted readings



Display Range Values. Adjusted using inc & dec keys. Note this Does not alter the measurement Range

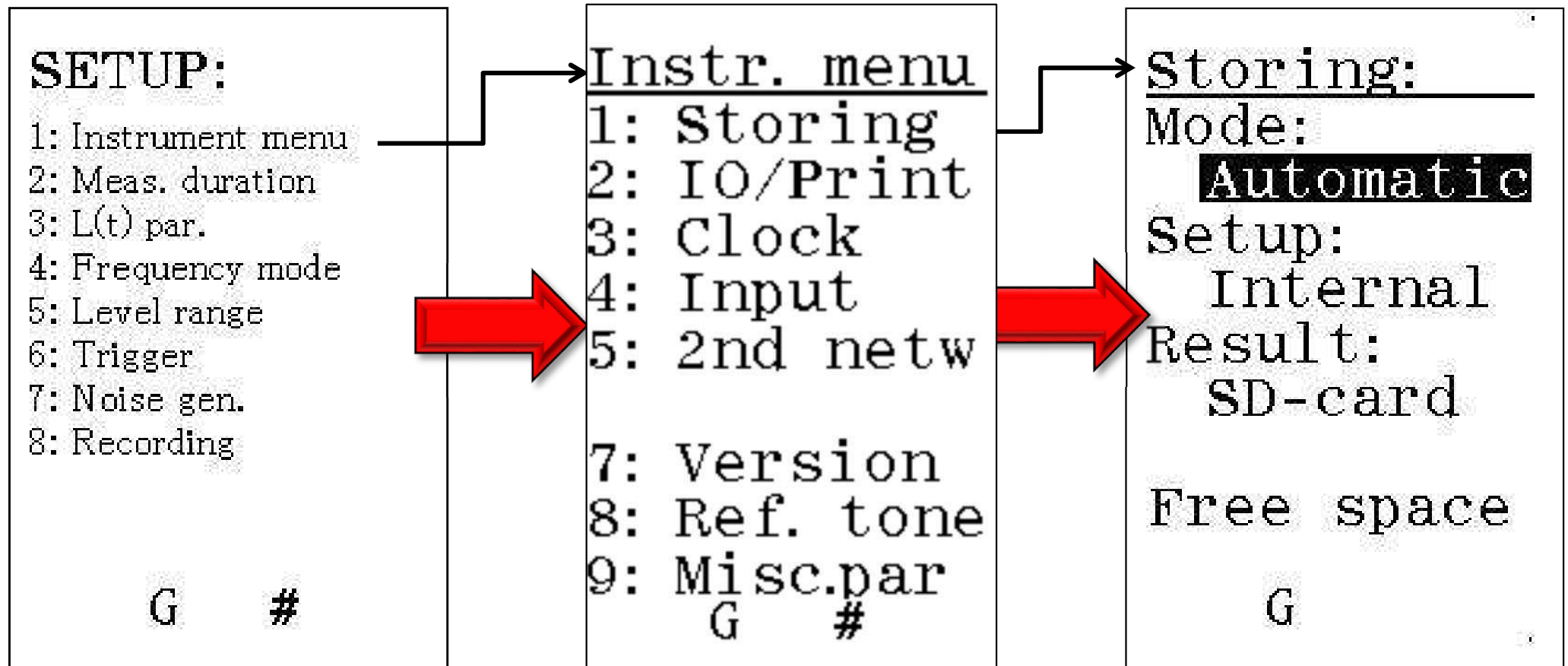
Graphical dB reading

Corrections Applied (G is pre-amp)





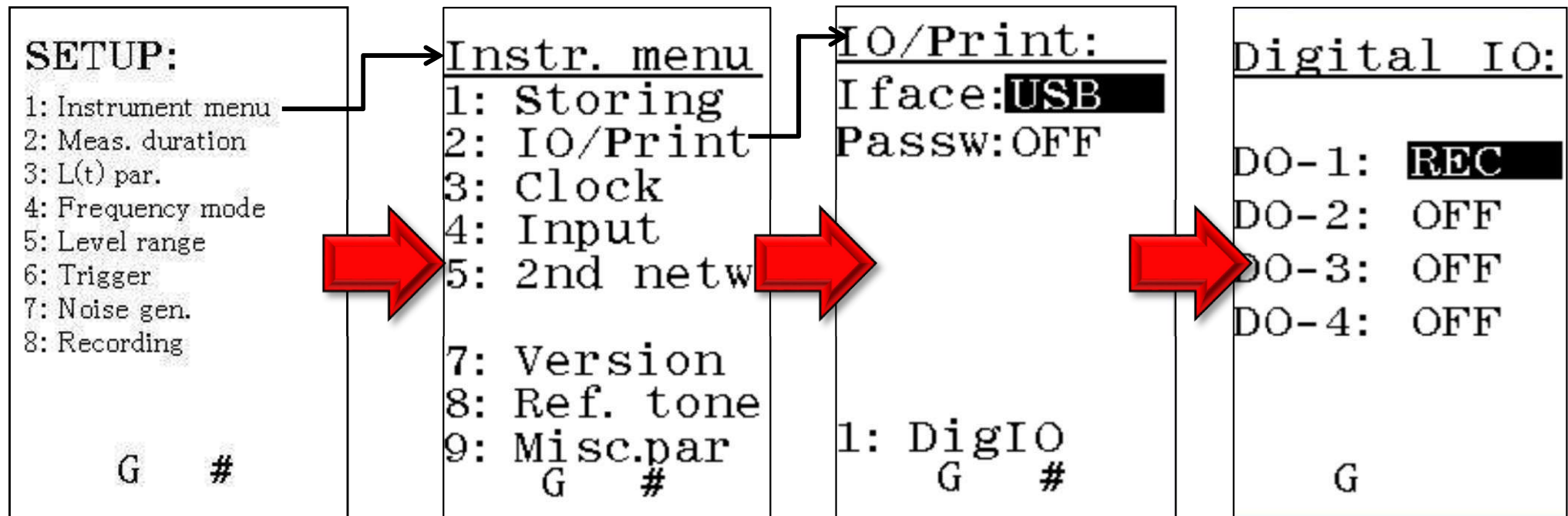
# Screen Shots – Storing Method



Automatic – Automatic saving, Repeat – Repeat measurement duration and save until stopped, Syncro – Synchronise with the clock, Manual – Waits for Store/Record key to be pressed before saving.



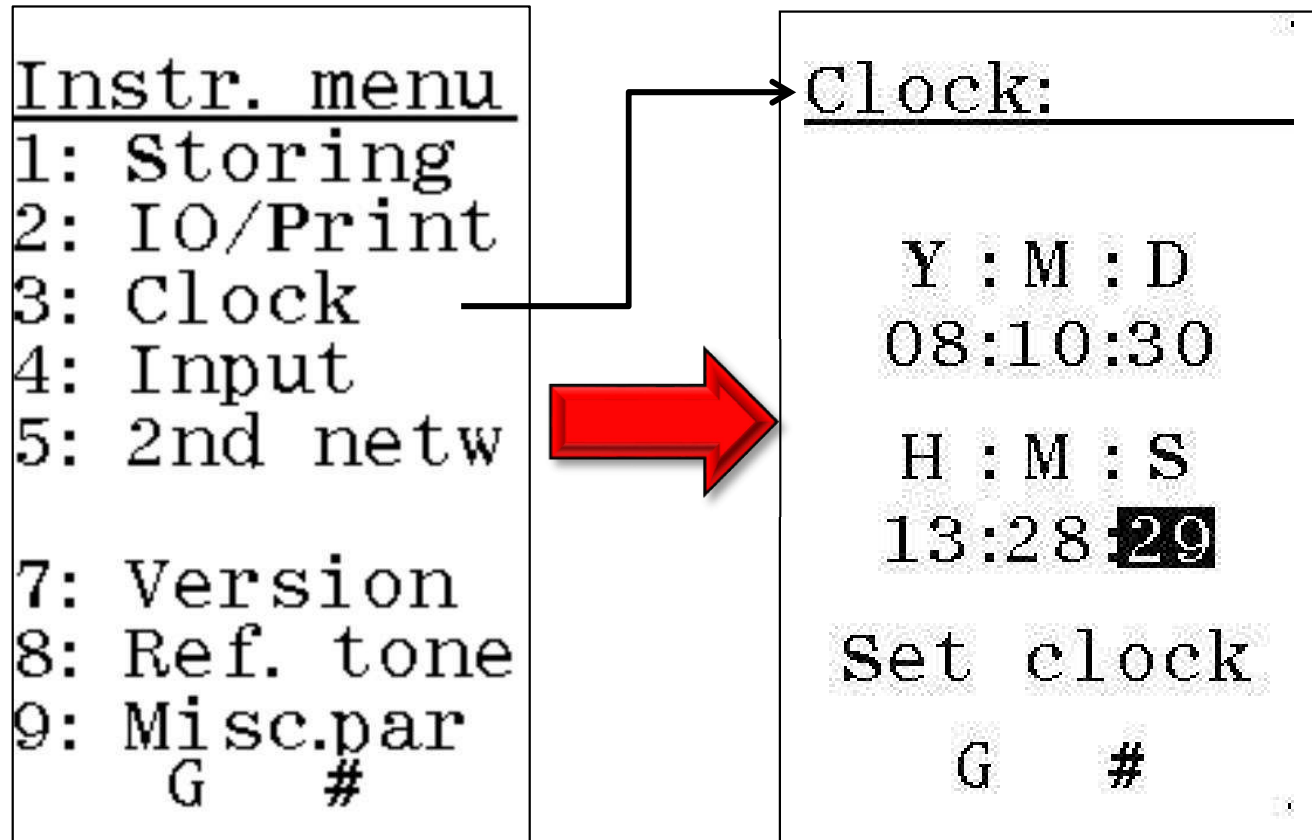
# Screen Shots - Handswitch Light Activation



To make sure the handswitch light comes on go into 1) Instrument menu – 2) IO/Print and then press button 1 for the Dig IO ports. Make sure DO-1 is set to REC using the inc or dec keys at the top of the meter.



# Screen Shots - Clock

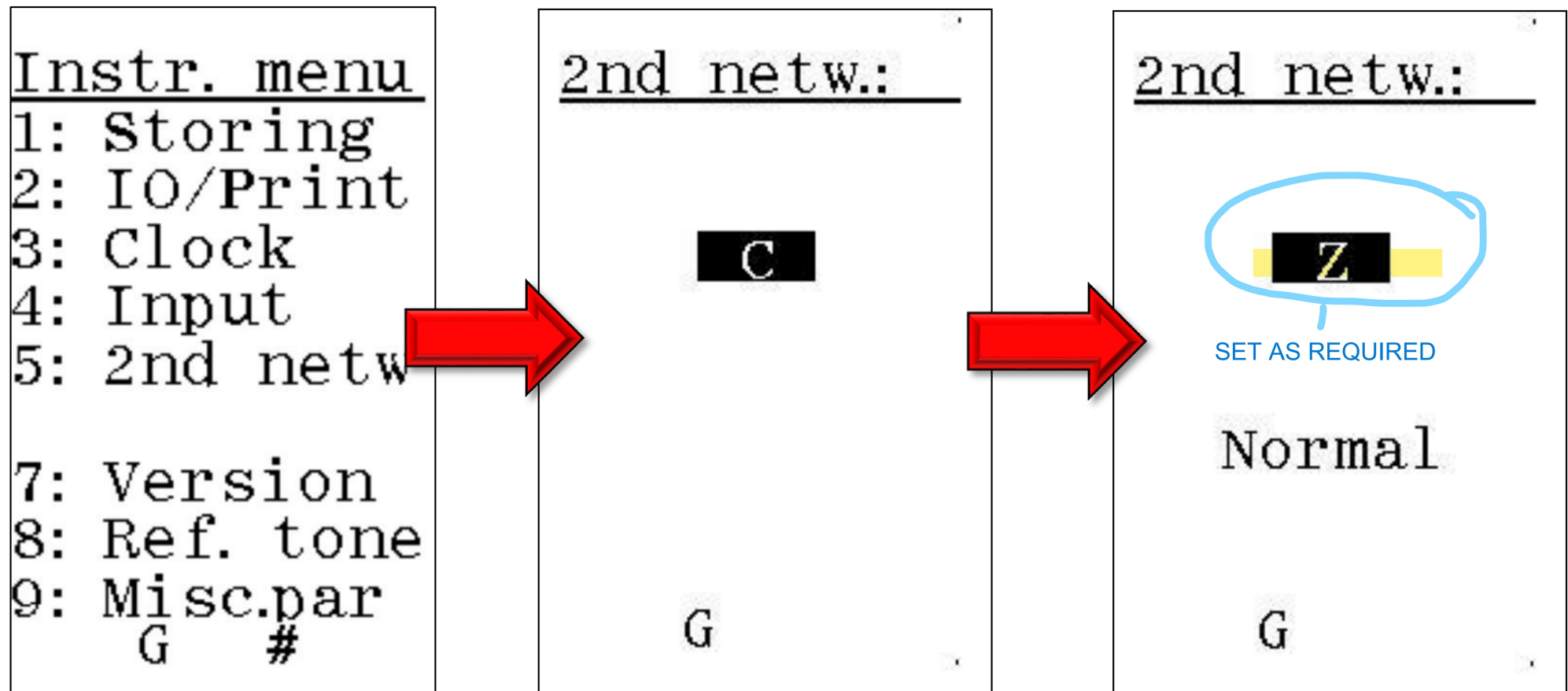


**Make sure 'set clock' is highlighted before pressing enter.**





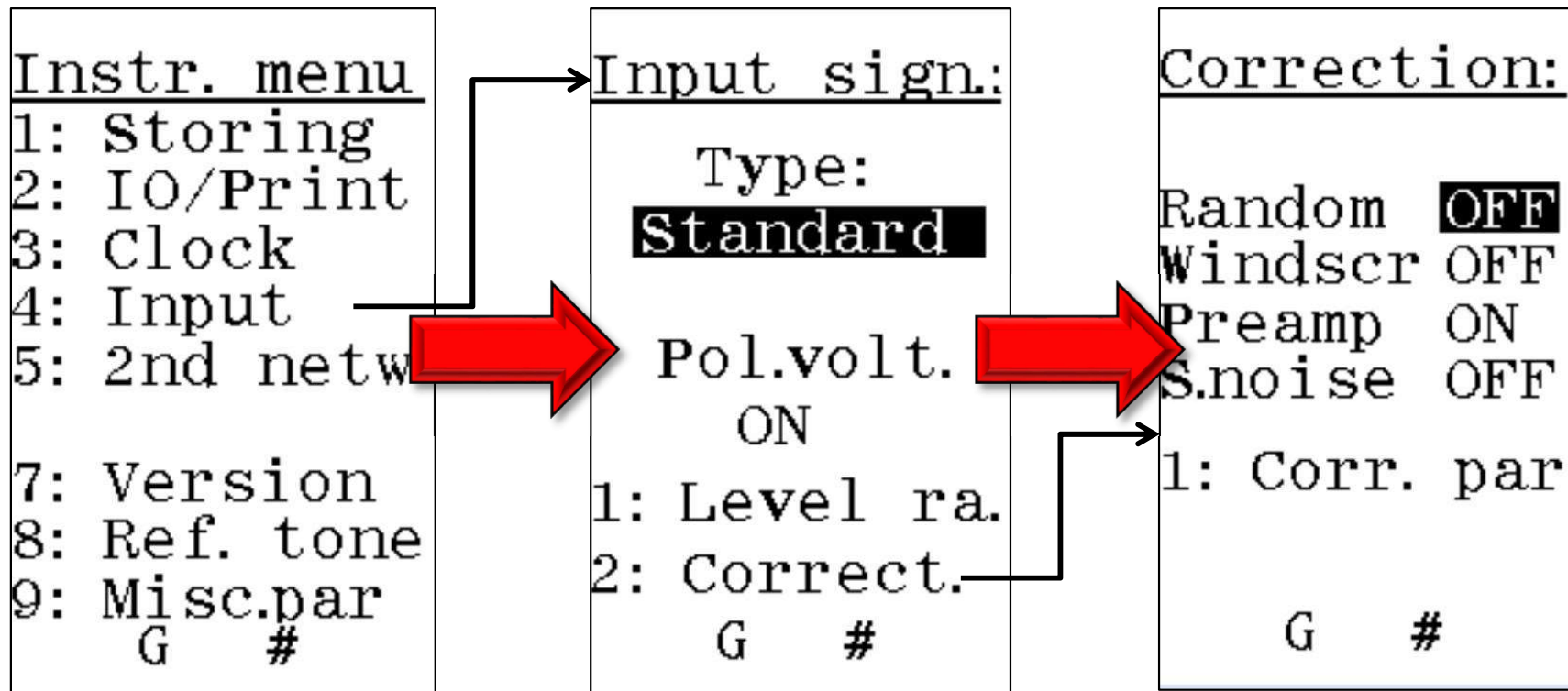
# Screen Shots – 2<sup>nd</sup> Network





# Screen Shots – Input & Corrections

For most assessments the input type should be standard with the Pol. Volts set to On. If very low levels are measured on the front screen then it is likely that the voltage to the microphone is turned off.



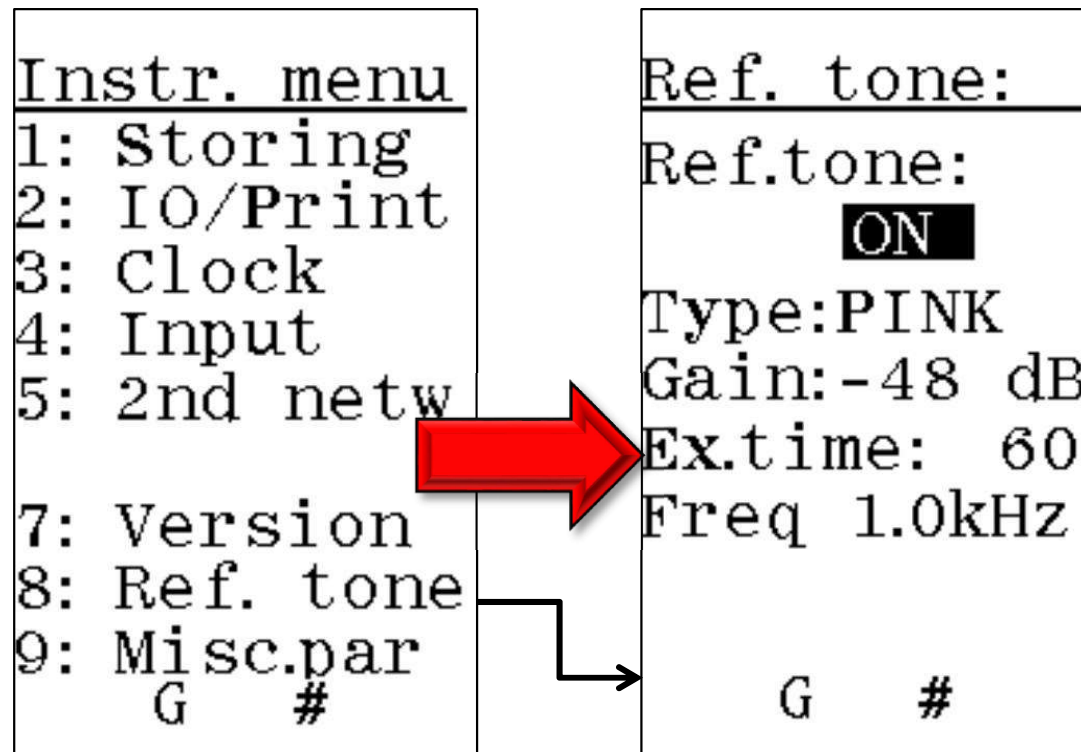
Active corrections are displayed by letters at the base of every screen. The preamp correction should be the only one active unless using a random incident microphone or a different composition windscreen.





# Screen Shots – Reference Tone

The reference tone is used to help calibrate the volume that audio recordings are played back in order to create a 'real life' situation when listening. This is activated using the Cal button when a measurement is taking place.

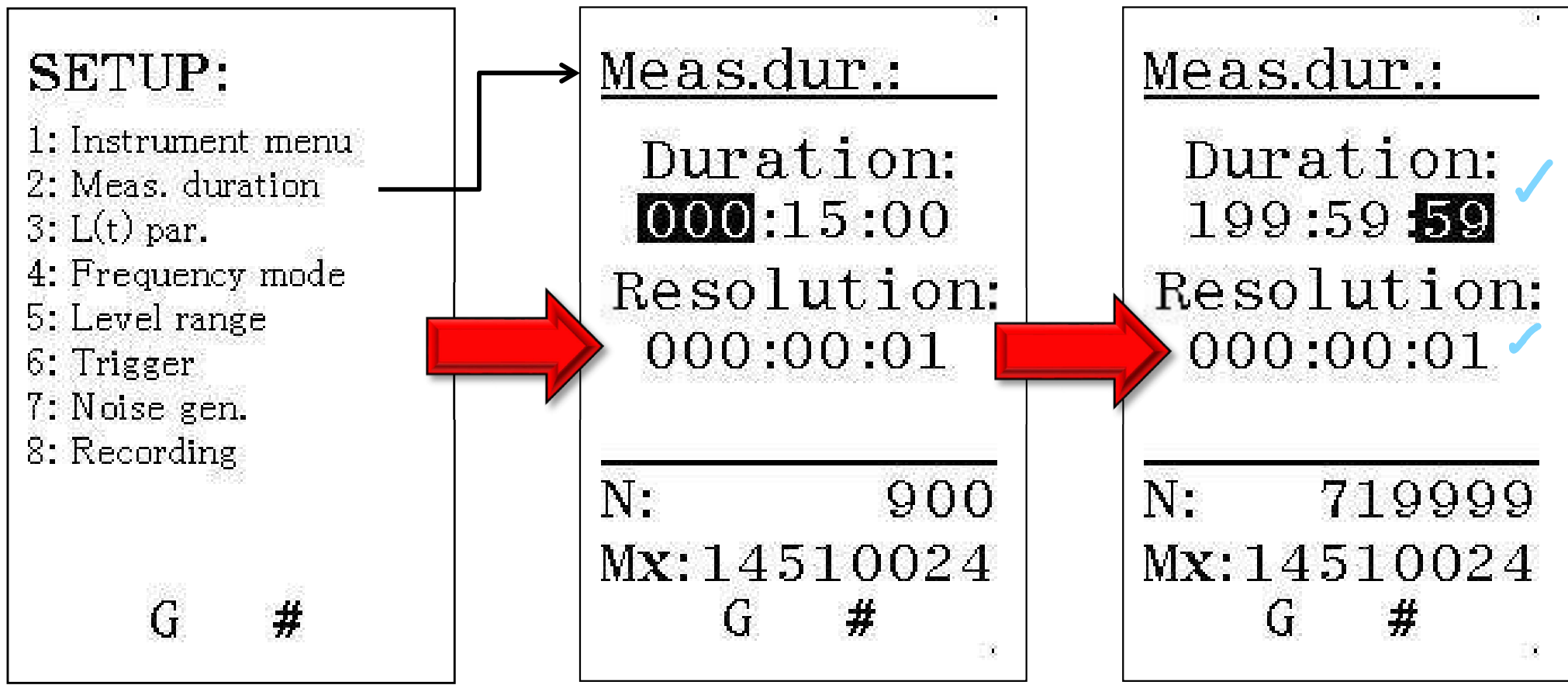


To activate the Ref. tone needs to be set to 'On' and the Type 'Pink'. The gain value, if set to 0, starts at 118dB. Putting a minus in here therefore brings the playback level down from 118dB. So -48 gain gives a playback volume of 70dB. The 'Ex time' is the period of time that this recording reference last for. The frequency is only relevant if the Type is changed to Sine, otherwise it is a broadband recording.





# Screen Shots – Measurement Durations



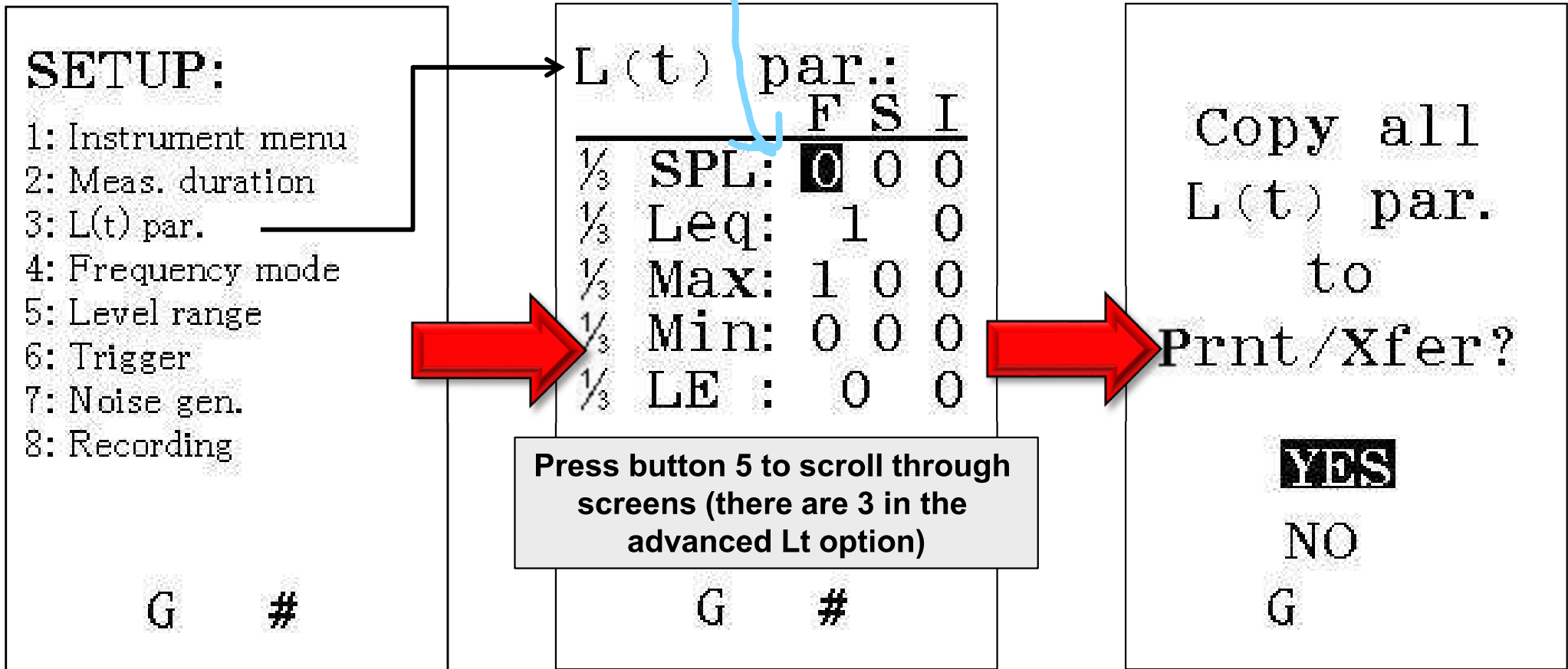
To move between boxes – type the number, press enter, use arrow keys to move to next box.  
Resolution reduced using 'inc' and 'dec' keys.



# Screen Shots – L(t) Parameters



SET AS REQUIRED



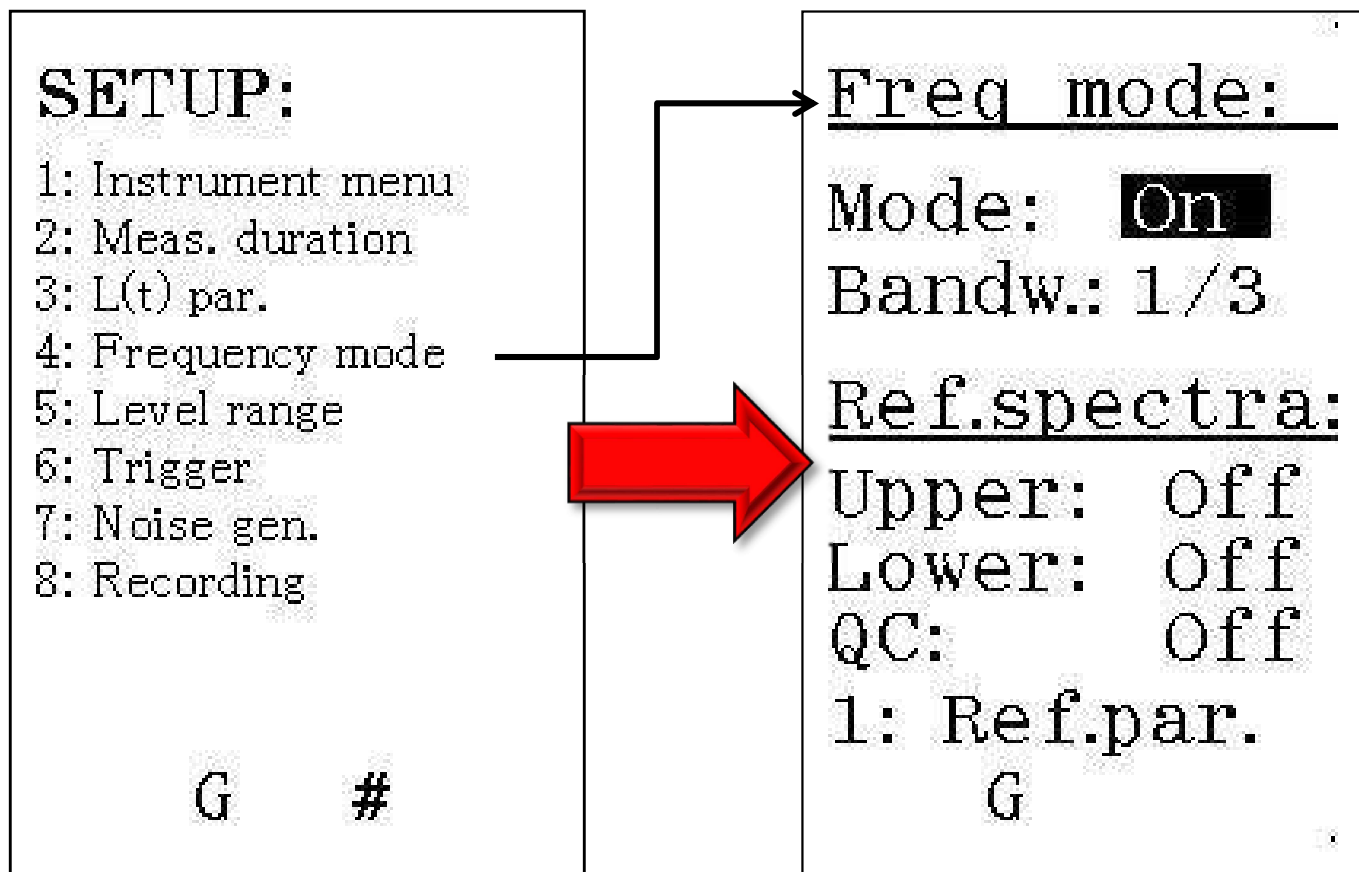
Press button 5 to scroll through screens (there are 3 in the advanced Lt option)

1 = will be stored every second (can plot level vs time graph)  
 0 = will only appear in the global file



# Screen Shots – Frequency Mode

FEATURE MAY NOT BE AVAILABLE ON ALL UNITS



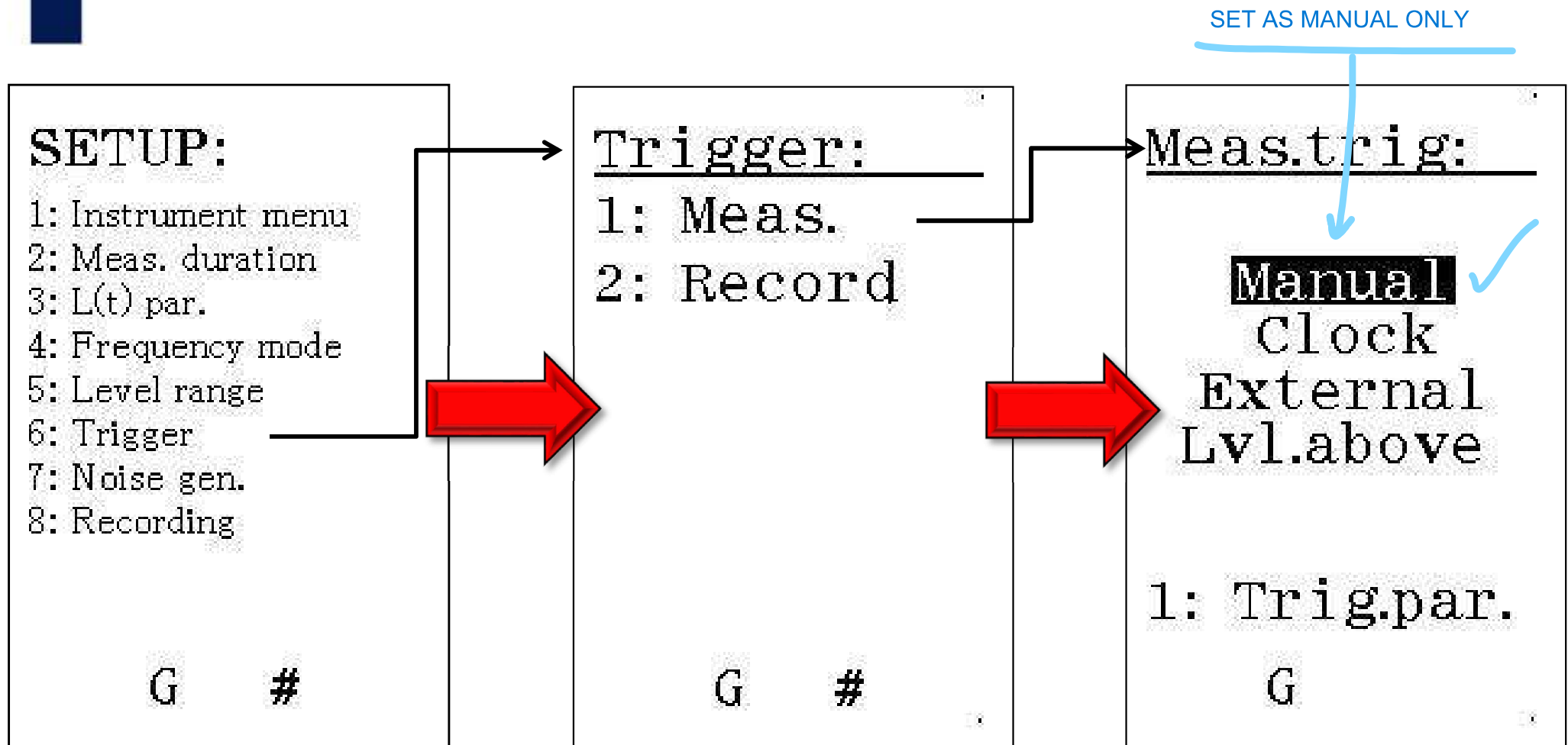
1/3 = 6.3Hz – 20kHz (standard microphone measurement capabilities)

1/3w = 0.4Hz – 20kHz (for use with accelerometer)





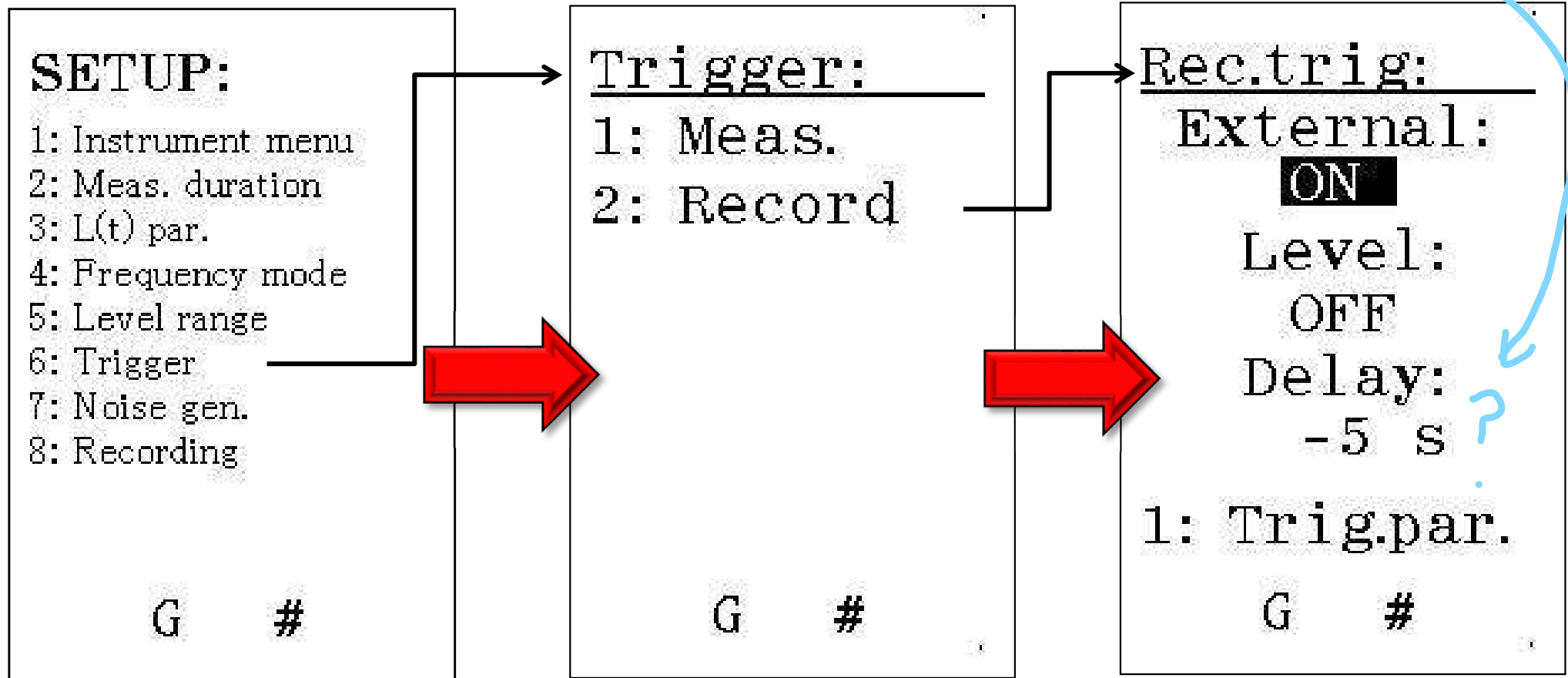
# Screen Shots - Trigger



**Manual** – Start key starts measurement, **Clock** (press 1 when highlighted) – measurement starts at specified time and runs for measurement duration, **External** – Link to bluetooth, 3G etc, **Level Above** - (press 1 when highlighted) set dB level to exceed before measurement starts.



# Screen Shots - Trigger



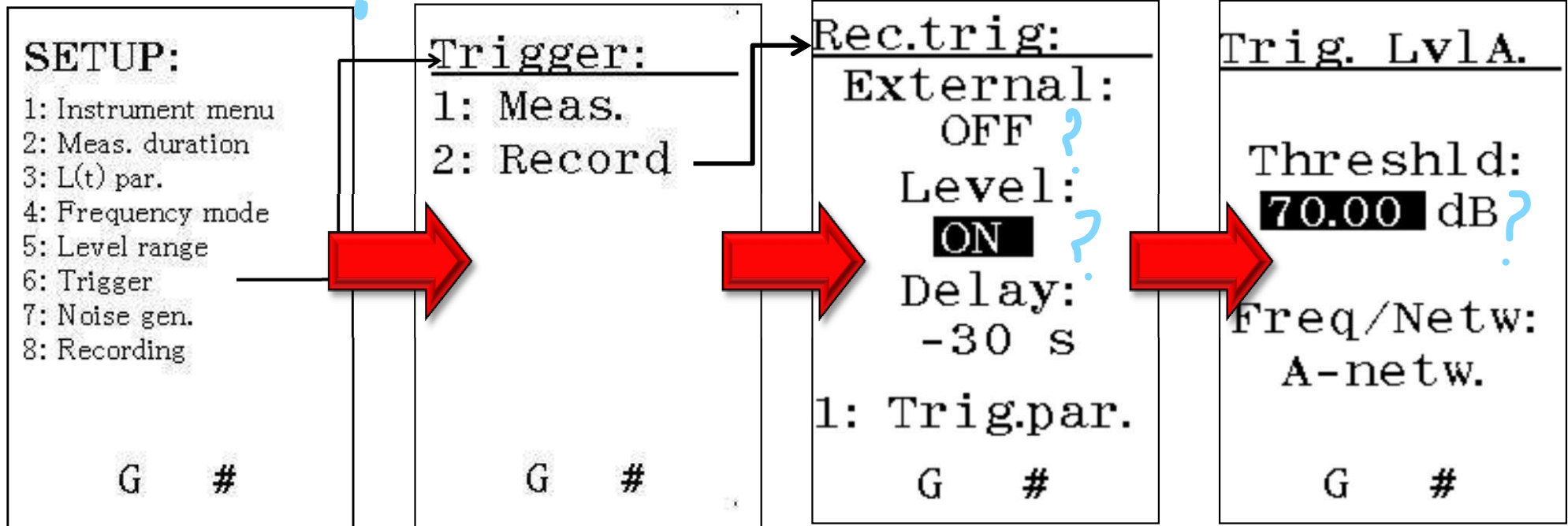
External is the handswitch audio trigger.  
Level gives you a level above trigger. Press 1 to access settings.  
Delay is the pre-trigger that can be up to -99seconds.





# Screen Shots – Level Trigger

? THIS IS FOR INFORMATION PURPOSES ONLY - DO NOT SET THESE SETTINGS UNLESS REQUIRED



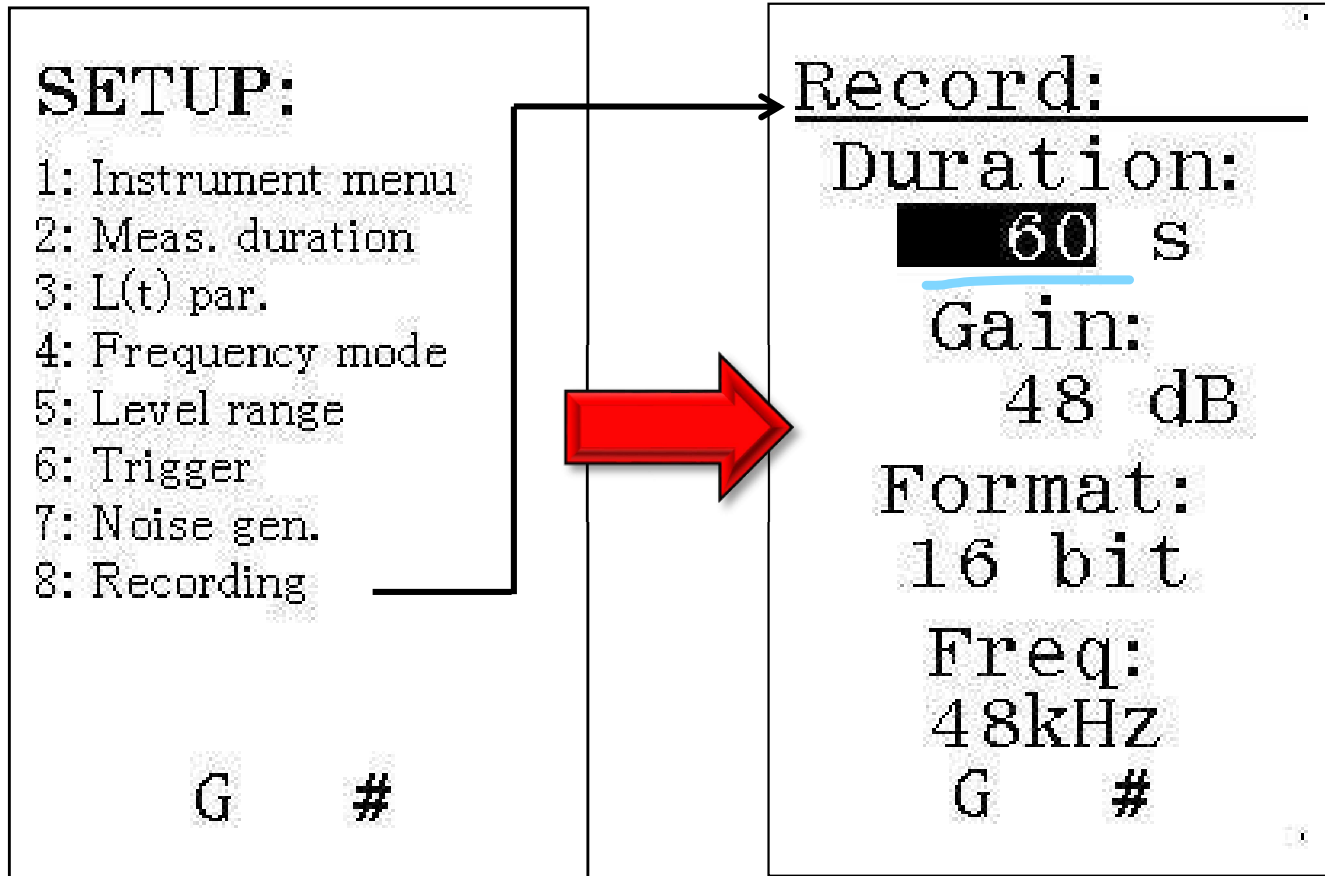
To activate audio recordings without the handswitch you can use the level trigger option. This is in set-up 6) Trigger – 2) Record Trigger and then change the external to off (handswitch) and the level to on. Press button 1 with the Level ‘On’ highlighted to change the dB level. With this set the meter will record audio every time the noise goes above this Threshold. Be careful when using this as manned properties will set the trigger off more often.



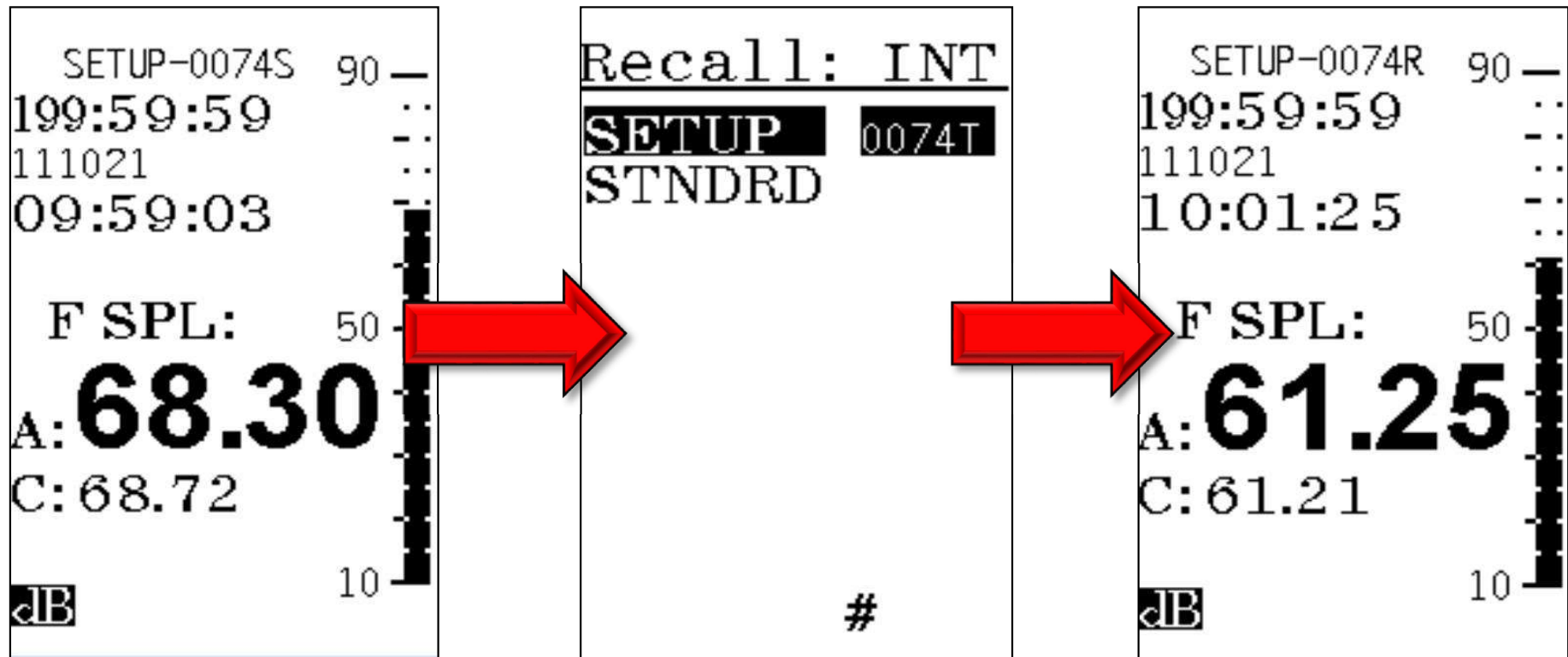


# Screen Shots – Recording Settings

SET DURATION AS REQUIRED



# Saving Settings & Recalling



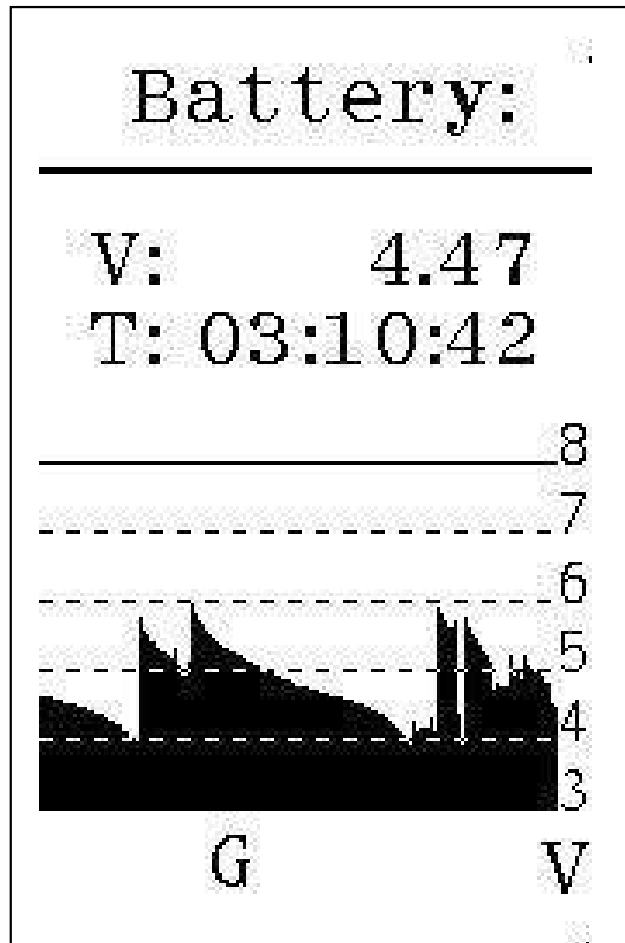
When in the main standby screen press the Store/Record key and a set-up number will appear at the top of the screen with a 'S' to indicate it has been saved. To load the set-up press the 'Recall' key and make sure the letters in the top right say 'INT' for internal memory (SDC is SD card and you will need to press the inc or dec key to change). Find the correct set-up number and press enter. The set-up number will then appear at the top of the screen with the letter 'R' next to it to indicate it has been recalled.







# Button 0 – Battery Indicator



**V indicates the current voltage.**  
This will be around 5 for batteries  
and around 12 for mains supply.

**T indicates the time the meter has  
been on batteries for. This is reset  
when new batteries are installed.**





# Notes

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