

How to configure your Nor145 settings App for Noise Nuisance Recording For the first time!



First we need a template setup file – you must load the Default setup first



Press SETUP Key to start adjusting your settings for noise nuisance settings

Select Default and use the green tick at the bottom to accept the settings

The screenshot displays a software interface for environmental sound measurement. At the top, the title bar shows 'Environmental' and 'Setup Information' with a time of 00:05:39. The main area is divided into several sections:

- Standard Setups:** A list of preset configurations including '3Min NNR -60s', 'Default' (highlighted with a blue dashed box), 'Default 2-Ch', 'Environmental', and 'Environmental 2-Ch'.
- Show Setup Shortcut:** A button with a red 'X' icon.
- Measurement Time:** Global: 0:01:00:00, Profile A: 00:00:00.125
- Bandwidth:** 1/3 - Octave, Upper Limit: 20 kHz, Lower Limit: 20 Hz
- Global Functions:** LAeq, LAE, LApeak, LAFmax, LAFmin, LCeq, LCE, LCpeak, LCFmax, LCFmin, LZeq, LZE, LZpeak, LZFmax, LZFmin, Lfeq, LfE, LfFmax, LfFmin, L1, L5, L95. For: LAF, LCF, LZf, LfF.
- Profile Functions:** LAeq, LAFmax, LCeq, LCFmax, LZeq, LZFmax, Lfeq, LfFmax.

On the right side, there are two real-time monitoring panels:

- Top Panel:** Shows a reading of 42.0 dB for 'LAFspl' with a corresponding frequency spectrum plot.
- Bottom Panel:** Shows a reading of 41.2 dB for 'LAFspl' with a corresponding frequency spectrum plot.

At the bottom of the interface, there is a control bar with several buttons: 'Hide' (with a red 'X'), a green checkmark (highlighted with a blue dashed box), another red 'X', and a 'Marker' button. To the right of these are 'Start', 'Pause', and 'Note' buttons.

How to set the measurement duration

Set the Global Time (measurement duration) to 7 days

The screenshot displays a software interface with three main sections: Setup, Measurement, and Global Time. The 'Measurement' section is highlighted with a blue dashed border. The 'Global Time' section shows a 'Measurement Time' of 7:00:00:00. A table below it shows time settings for days 5 through 1. A large green checkmark is overlaid on the bottom right of the interface.

Day	Hrs	Min	Sec
5	22	58	58
6	23	59	59
7	00	00	00
0	01	01	01
1	02	02	02



How to set the resolution detail (how often it records a dB value)

Set the Profile A ✓ to 1 second resolution

The screenshot shows a software interface for configuring measurement parameters. The left sidebar lists various settings, and the right panel shows the 'Profile A' configuration.

Measurement Settings:

- Global Time: 07:00:00:00
- Profile A**: 00:00:01.000 ✓ (highlighted with a blue dashed box)
- Profile B: 00:15:00 ✗
- Profile Moving: Window = 15 Min ✗
- Time Weightings: F
- Frequency Weightings: A,C,Z
- Filter: 1/3, 20 Hz - 20 kHz ✓
- Percentiles (%): 1.0, 5.0, 95.0
- Functions: LAeq, LAE, LApeak, LAFmax, ..
- Audio Recording: ✓

Profile A Configuration:

Interval: 00:00:01.000 ✓

Hrs	Min	Sec	mSec
23	58	59	600
24	59	00	800
00	00	01	000
01	01	02	005
02	02	03	010

A large green checkmark icon is overlaid on the bottom center of the interface.



How to turn on frequency display (not all meters have this option)

Set the frequency weighting = Network A  at least



How to set percentiles

Set one 90% percentile to 



The screenshot displays a software interface with two main panels: 'Measurement' and 'Percentiles'. The 'Measurement' panel includes settings for Global Time (07:00:00:00), Profile A (00:00:01.000, checked), Profile B (00:15:00, unchecked), Profile Moving (Window = 15 Min, unchecked), Time Weightings (F), Frequency Weightings (A,Z), Filter (1/3, 20 Hz - 20 kHz), Percentiles (%), Functions (LAeq, LAE, LApeak, LAFmax, ...), and Audio Recording (checked). The 'Percentiles' panel lists Calculation Source (LF SPL) and several percentile values: 0.1%, 1.0%, 5.0%, 10.0%, 50.0%, 90.0% (checked), 95.0%, and 99.0%. A large green checkmark icon is overlaid on the bottom right of the interface.



How to ensure you have a plotted graph

Enable the functions as you would like:

LAeq = G & PA are the minimum requirement

Advance User: For frequency logging please ensure Lfeq & LfFspl is enabled!

Measurement	Functions	Reports
Global Time 07:00:00:00	G	PA
Profile A 00:00:01.000 <input checked="" type="checkbox"/>	LAeq <input checked="" type="checkbox"/>	PA <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Profile B 00:15:00 <input checked="" type="checkbox"/>	LAE <input type="checkbox"/>	<input type="checkbox"/>
Profile Moving Window = 15 Min <input checked="" type="checkbox"/>	LApeak <input checked="" type="checkbox"/>	<input type="checkbox"/>
Time Weightings F	LAFmax <input checked="" type="checkbox"/>	LAFmin <input checked="" type="checkbox"/>
Frequency Weightings A,Z	LAFspl <input type="checkbox"/>	<input type="checkbox"/>
Filter 1/3, 20 Hz - 20 kHz <input checked="" type="checkbox"/>	LAFTM5 <input type="checkbox"/>	<input type="checkbox"/>
Percentiles (%) 90.0	LAn <input type="checkbox"/>	<input type="checkbox"/>
Functions LAeq, LAE, LApeak, LAFmax,...	LZeq <input checked="" type="checkbox"/>	LZpeak <input checked="" type="checkbox"/>
Audio Recording <input checked="" type="checkbox"/>	LZE <input type="checkbox"/>	LZFmax <input type="checkbox"/>
	LZFmin <input type="checkbox"/>	LZFspl <input type="checkbox"/>

How to set the audio recording hand switch settings

The screenshot displays a software interface for configuring audio recording. The main menu on the left includes options like Profile Moving, Time Weightings, Frequency Weightings, Filter, Percentiles (%), Functions, Audio Recording (highlighted with a green checkmark), Camera, and Storage Mode. The Audio Recording settings are shown in a central panel, with a dashed blue box highlighting the following values: Sampling Rate (48 kHz), Resolution (16 bit), Gain (48 dB), Pre-trigger (60 sec), and Channel (Sound Channel 1). To the right, the Select Gain and Pre-trigger sections show Gain set to 48 dB and Time set to 60. Below these, two vertical columns of buttons are visible, with the '60' button in the right column highlighted by a dashed blue arrow. A green checkmark is placed over the '60' button. At the bottom, a status bar contains various icons, with a large green checkmark icon positioned above a blue cable with a connector.

Sampling Rate	Resolution	Gain	Pre-trigger	Channel
48 kHz	16 bit	48 dB	60 sec	Sound Channel 1

Gain	Time
48 dB	60

Buttons (Left Column)	Buttons (Right Column)
36	58
42	59
48	60
54	61
60	62



How to set the Storage Mode

Repeat = Repeat continuous repeat measurements of 7 days until you press STOP (used for 2 week measurements)

Automatic = Automatic stop and save of the measurement duration (7 days)

Synchronised = Measurements are saved into hourly periods (12:00-13:00, 13:00-14:00, 14:00-15:00 and so on)

Manual = Manual stop and save of the measurement



Do you need a 3 second countdown after pressing the start button? Here's how...



A screenshot of a software setup menu. The menu is titled 'Setup' and has a question mark icon. The 'Trigger' option is highlighted with a blue dashed box. Below the 'Trigger' option, there are several sub-menus: 'Global Measurement', 'Global Trigger', and 'Manual Trigger Delay'. The 'Global Measurement' sub-menu shows 'Manual' selected with a green checkmark and 'Delay : 3s'. The 'Global Trigger' sub-menu shows 'Manual Trigger' selected with a green checkmark and 'Delay : 3s'. The 'Manual Trigger Delay' sub-menu shows 'Delay' set to '03' with a green checkmark. Below the 'Manual Trigger Delay' sub-menu, there is a vertical stack of buttons labeled '01', '02', '03', '04', and '05'. A large green checkmark icon is overlaid on the bottom right of the screenshot. At the bottom of the screenshot, there is a row of icons: a red 'x', a green checkmark, a red 'x', a green checkmark, a red 'x', a green checkmark, a red 'x', a green checkmark, a red 'x', a green checkmark, and a red 'x'. A large green checkmark icon is overlaid on the bottom right of the screenshot.

How to set the hand switch to record audio

Set Events 1: ON

Configure your audio parameters... (Max Action Time = Audio Recording Length)



How to turn the reference tone marker ON

The screenshot displays the 'Marker Setup' interface. On the left, a list of markers is shown, with 'Marker 1' selected and highlighted by a blue dashed box. The 'Marker 1' entry shows a red vertical bar icon, the text 'Reference Tone, Toggle', and a green checkmark icon. Below this list is a horizontal bar with icons for each marker, where the icon for Marker 1 is a green checkmark, while others are red 'x' marks.

The 'Marker 1' configuration panel is also highlighted by a blue dashed box and contains the following details:

- Name: Reference Tone
- Type: Toggle
- Action: Reference Tone, Recording

To the right, the 'Marker Action' panel is visible, showing a list of actions with their status:

- Reference Tone:
- Recording:
- Picture:
- Digital Output:

Three large green checkmarks are overlaid on the interface: one on the 'Marker 1' list item, one on the 'Reference Tone' action checkbox, and one on the 'Marker 1' status icon in the bottom bar.



How to Turn ON battery markers and event markers



How to reduce the number of views in the main measurement display to just one view (Level v Time)



L (t) = Level vs Time. **L(f)** = Level vs Frequency,
SLM = Noise Levels Only

How to ensure the hand switch lights up!

Enable the hand switch by changing Outputs 1 – 4 to: Recording S1

The screenshot displays the 'Setup' menu with 'Instrument' selected. The 'Instrument' settings are expanded to show 'Digital and Analog I/O', which is further expanded to show 'Digital Output' settings. The 'Digital Output' settings are as follows:

Output	Configuration	Status
Digital Output 1	Recording S1	✓
Digital Output 2	Recording S1	✓
Digital Output 3	Recording S1	✓
Digital Output 4	Recording S1	✓

The 'Digital Output 1' settings are expanded to show the following options:

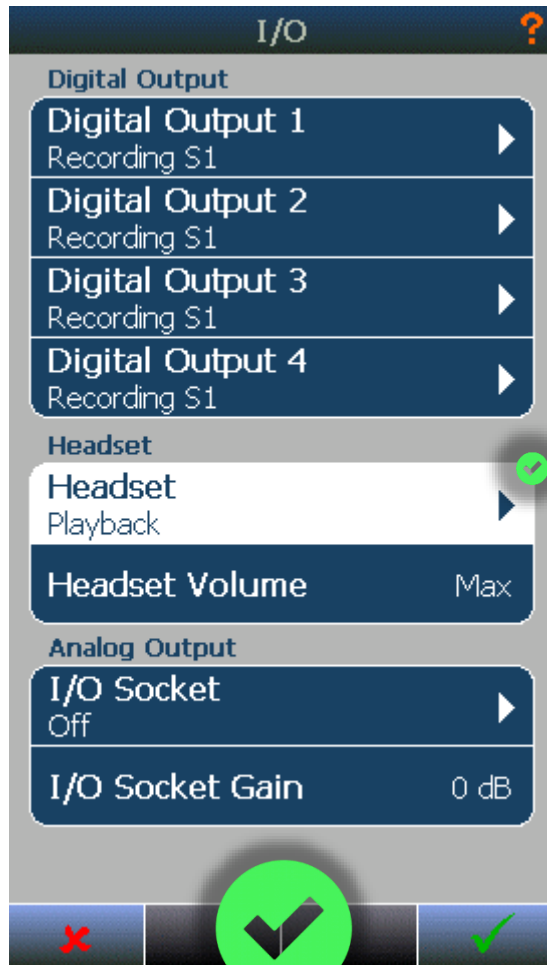
- Running
- Recording S1 (checked with a green checkmark)
- Recording S2
- Overload S1
- Overload S2
- Calibrating
- Mic. Check
- Remote controlled

At the bottom right, there is a diagram of a 15-pin D-sub connector with pins 1, 8, 9, and 15 labeled. A large green checkmark is overlaid on the diagram.



How to setup you headphone socket and adjust the volume

Set the headphones to Playback and adjust the volume as required



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How to set the Reference Tone to 70dB

The image displays three overlapping screenshots from the Campbell Associates software interface, illustrating the steps to set the Reference Tone to 70dB. The first screenshot shows the 'Instrument' menu with 'Reference Tone' selected. The second screenshot shows the 'Reference Tone Setup' dialog with 'Gain' set to -48 dB, 'Signal Type' set to 'Pink Noise', and 'Excitation Time' set to 30 seconds. The third screenshot shows the 'Gain Settings' dialog with 'Gain' set to -48 dB and 'Excitation Time' set to 30 s. Green checkmarks and red X marks are overlaid on the interface to indicate successful or failed actions.

Instrument

- Digital and Analog I/O
- Communication
LAN, USB, Serial
- Reference Tone**
-48dB, Pink, 30 seconds
- Power Settings

General

- Instrument Name**
ANT 15030108
- Date and Time**
04.05.2018 - 12:38:45
- Language**
English
- Number Format**
dB=1, Eng. Units=2, Rev=2
- About

Reference Tone Setup

- Gain** -48 dB
- Signal Type** Pink Noise
- Excitation Time** 30 seconds
- Used in markers
Marker 1:REFERENCE TONE

Gain Settings **Excitation Time**

- Gain** -48 dB
- Excitation Time** 30 s

Gain Settings List:

- 46
- 47
- 48
- 49
- 50

Excitation Time List:

- 28
- 29
- 30
- 31
- 32



How to configure the level vs time view window

Press and hold the touch screen in the measurement window (or press the tick button once)

Select Functions > Set Max Functions In View > Turn off 2nd & 3rd Functions

Line 1 - Lfeq should be changed to LAeq profile by pressing the text



How to make changes to the level vs time screen

- Set the zoom range of screen
 - Set the time unit to absolute (displays current the date and time)
- To do this - press and hold your finger on the screen to display the menu

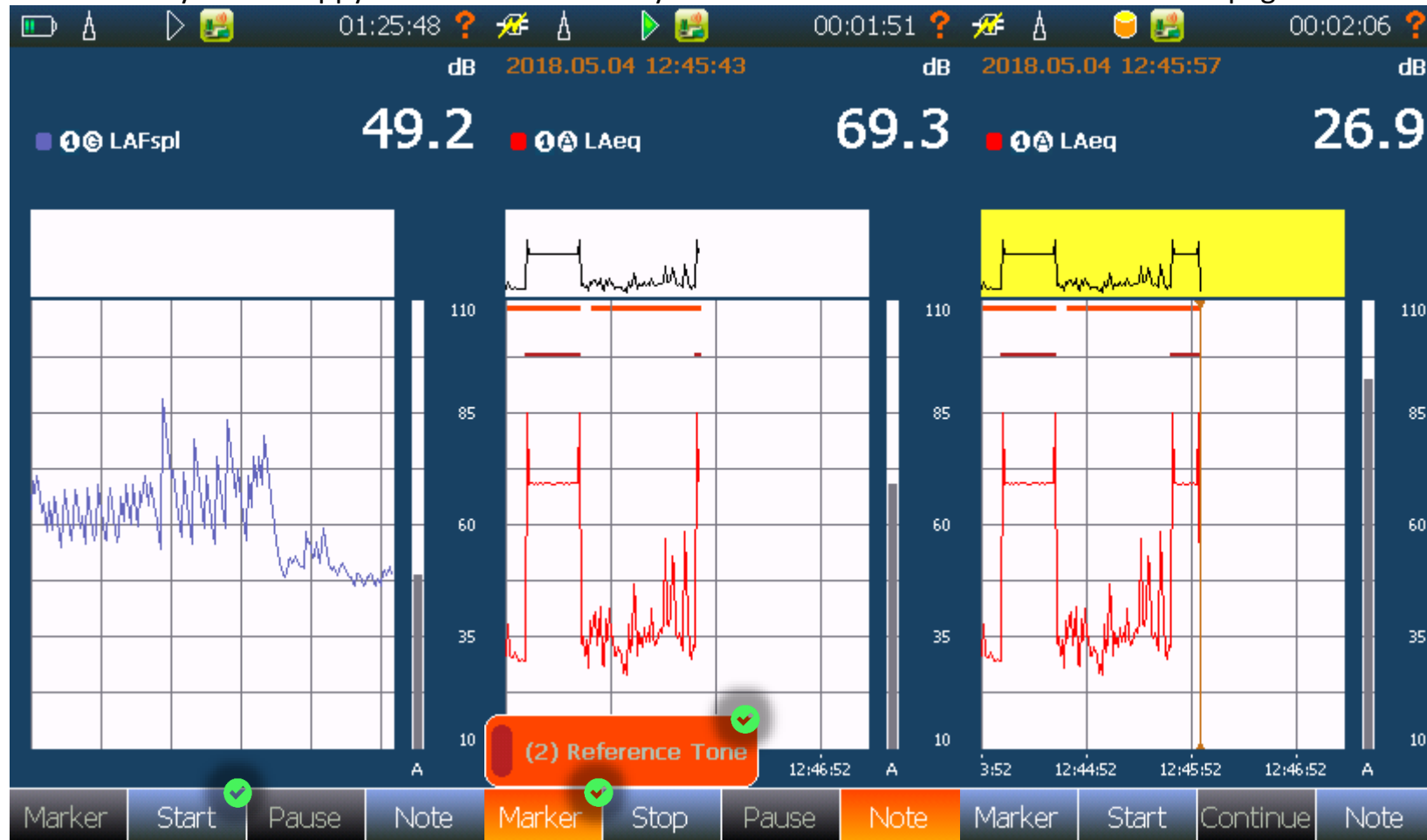


How to check your configuration is working?

Press the START button, Press the HANDSWITCH, this should light up. If not, ensure it is plugged in. If there is still a problem, please go back over these settings again. Once you have STOPPED the measure, you can clear the measurement in the window

by pressing the X button to clear the screen

If you are happy with the SETUP then you will need to save this SETUP – see next page

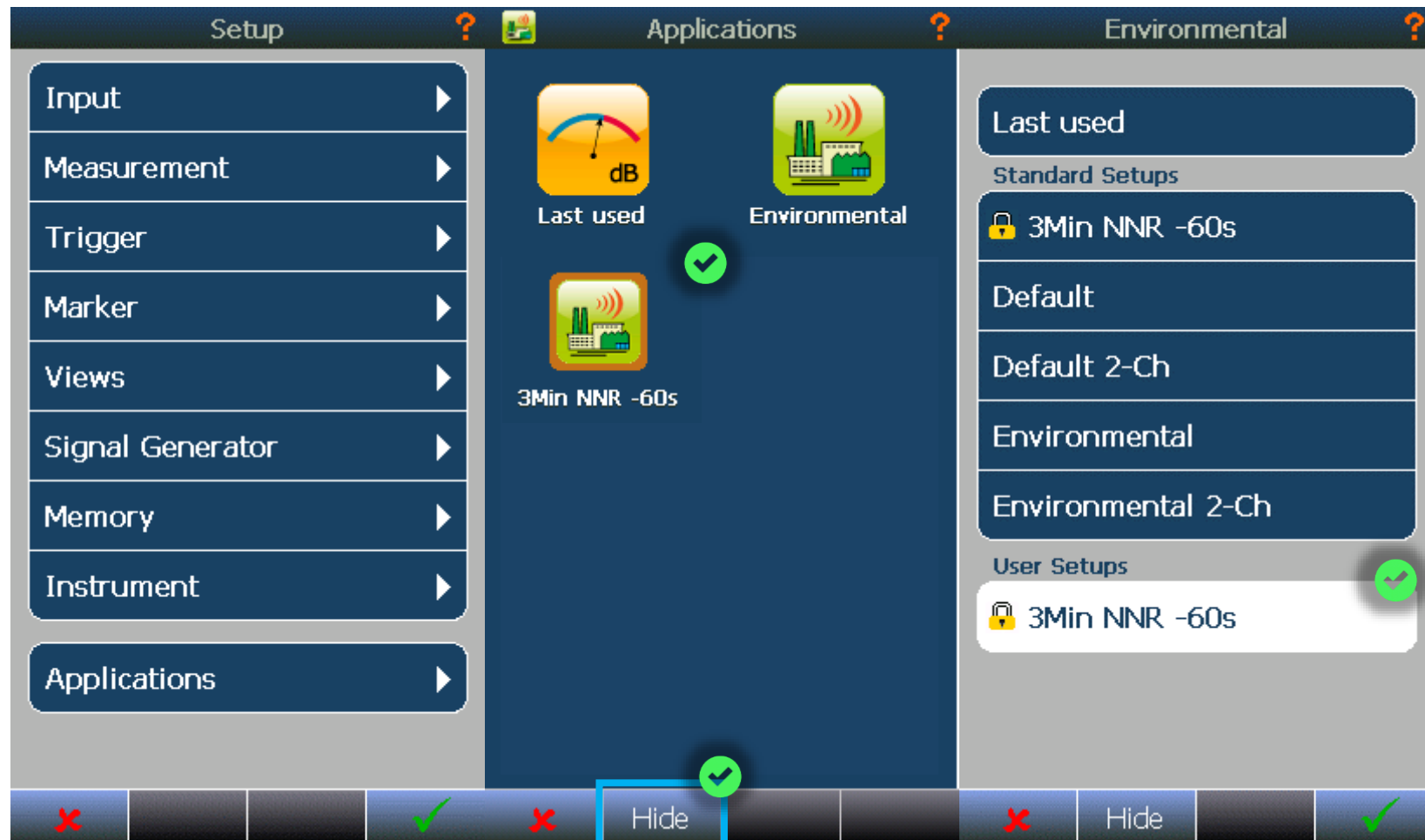


How to save the measurement setup you have configured Go to **SETUP > MEMORY > SAVE MEASUREMENT SETUP AS**

You may write protect the setup – but note you will not be able to change this later without saving the setup again as a new file name



COMPLETE! Now go back to applications
Make sure the **hide** button is shown at the bottom of the screen
Now load up your setup icon to test it out!



Now you have created you NNR application, you should only ever need to reload the app you have made today in future.

The apps configure the meter for you to save you time.

