

Mooshimeter Cheat Sheet

Version 0
Jan. 29 2015
James Whong

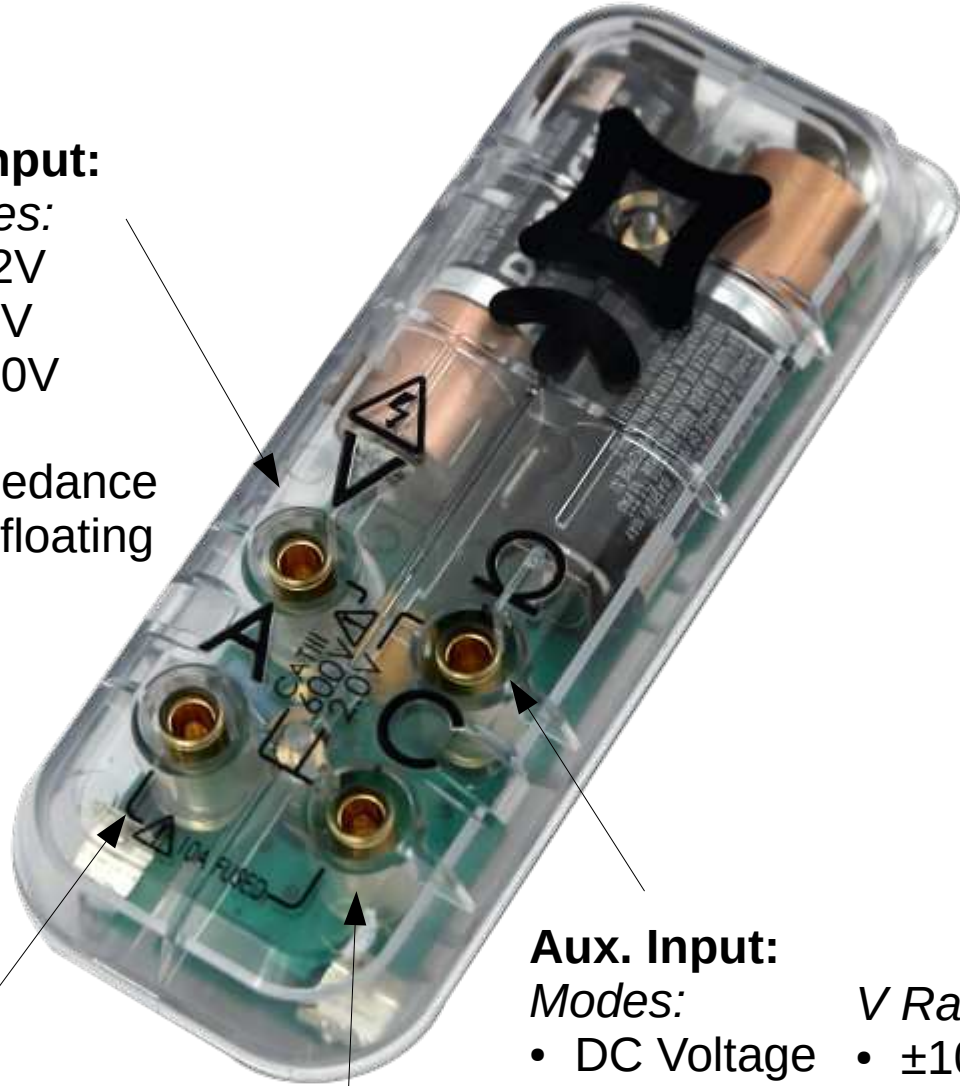
Measurement Overview

High Voltage Input:

Modes: Ranges:

- DC
- AC
- $\pm 1.2V$
- $\pm 60V$
- $\pm 600V$

10M Ω input impedance
 $\pm 1.2V$ range is floating



Current Input:

Modes: Ranges:

- DC
- AC
- $\pm 1A$
- $\pm 2.5A$
- $\pm 10A$

Connected to C
(Common) input by
current sense resistor
and fuse.

Common Input:

All other
measurements are
relative to this
terminal

Aux. Input:

Modes:

- DC Voltage
- AC Voltage
- Resistance
- Diode Drop

V Ranges:

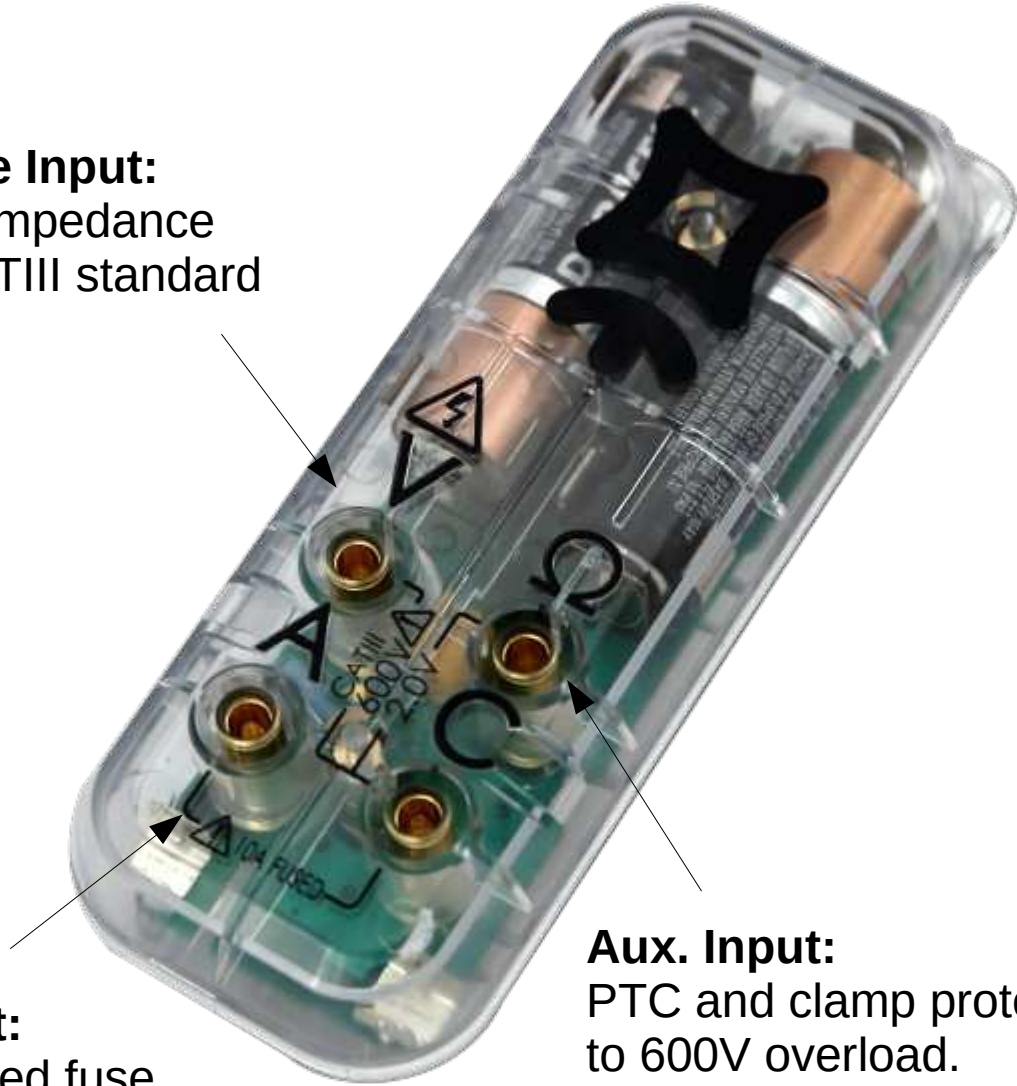
- $\pm 100mV$
- $\pm 250mV$
- $\pm 1.2V$

Ω Ranges:

- 1k Ω
- 2.5k Ω
- 10k Ω
- 1M Ω
- 2.5M Ω
- 10M Ω

Protection Overview

High Voltage Input:
10M Ω input impedance
Tested to CATIII standard
– 4kV surge



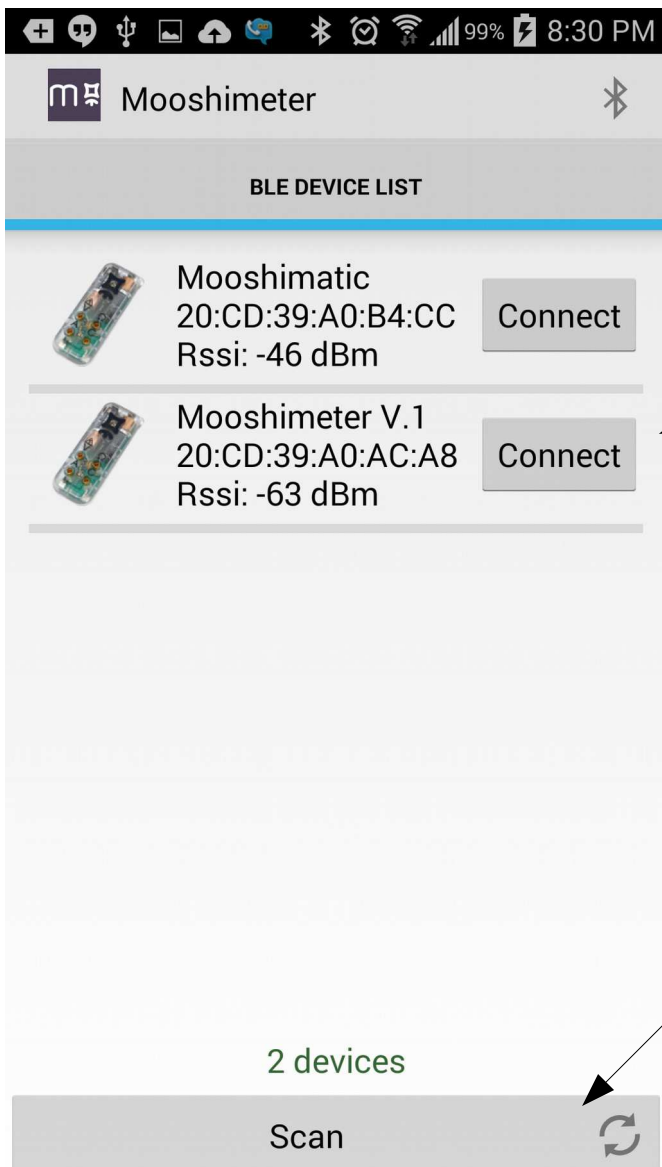
Current Input:
Factory installed fuse
rated to 10kA breaking
at 600V

Aux. Input:
PTC and clamp protected
to 600V overload.

Readings will be affected
for several minutes after
overload event (allow
protection elements to
cool)

Polycarbonate Case:
Tested to 4kV
sustained from any
terminal.

Scan Page



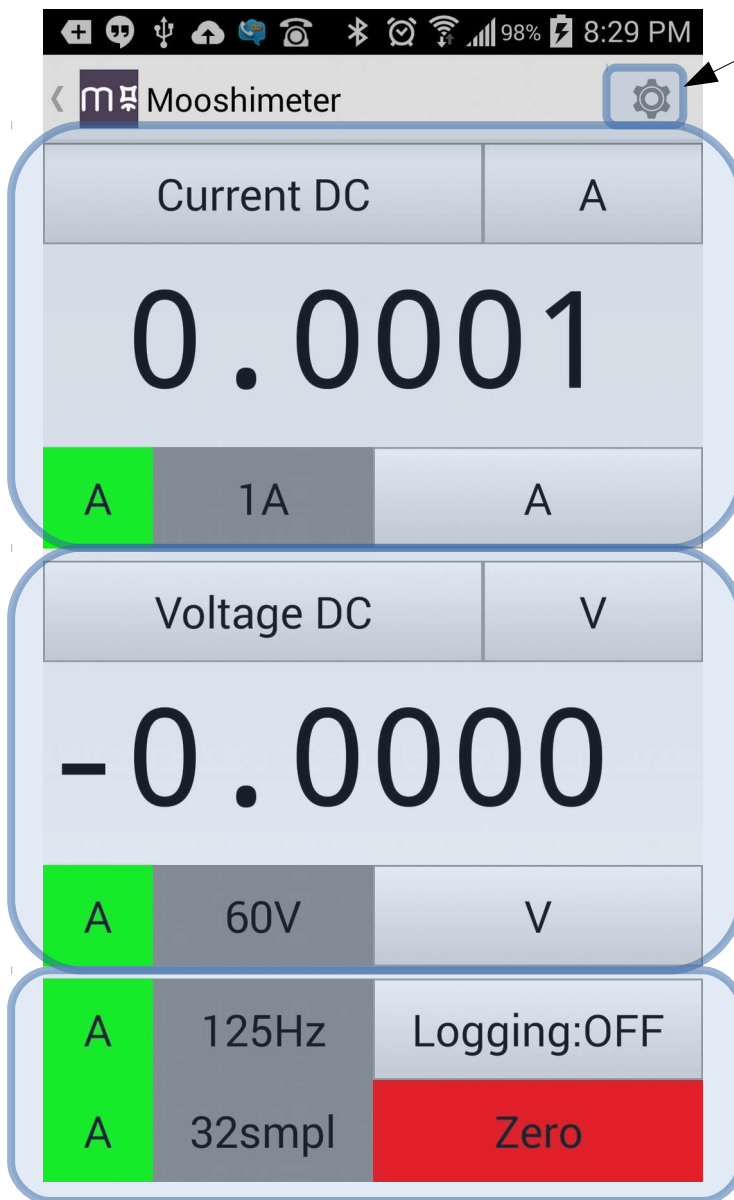
Scan results:

These are meters that were detected in the scan. Tap one to connect to it. If the connection is successful, you will be taken to the Meter View Page.

Scan button:

Scan for Mooshimeters within range. Results will appear in the list as they are detected. Scan ends after 10 seconds.

Meter View Page

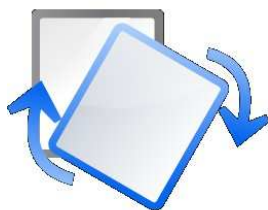


Preferences
Opens the
Preferences Dialog

Channel 1 Control
See "Channel Control"

Channel 2 Control
See "Channel Control"

Sampling Control
See "Sampling Control"



Rotate to Landscape
Will enter Graph View

Channel Control

Measurement Type

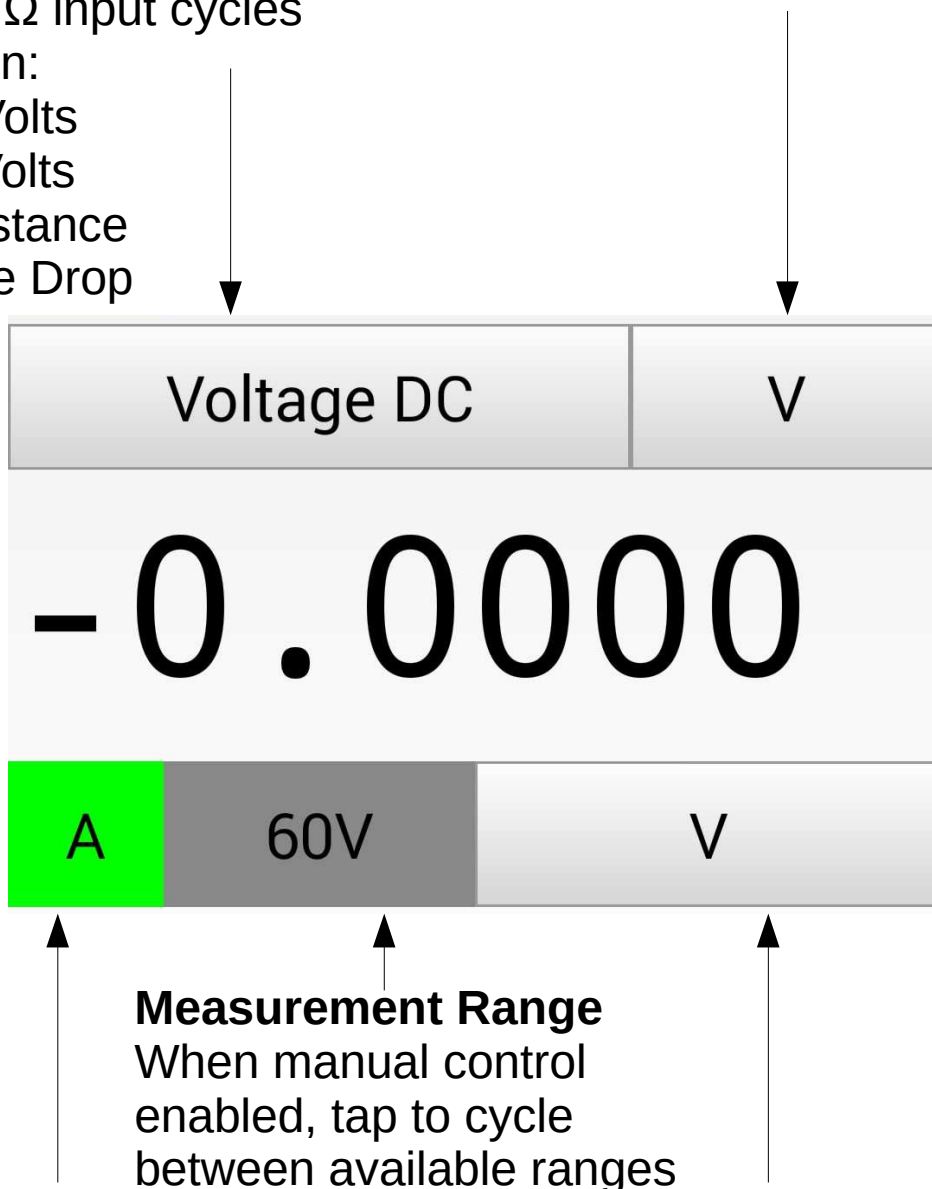
On the V and A inputs, tap to cycle between DC and AC.

On the Ω input cycles between:

- DC Volts
- AC Volts
- Resistance
- Diode Drop

Input Select

Tap to change which input port is being used. This label corresponds to the marking on the case.



Auto-Range Enable

Tap to toggle
"A" means auto ranging
"M" means manual ranging

Units

Displays the units of the reading. Tap to cycle:

- Natural Units
- Raw Hex Codes

Sampling Control

Sampling Rate

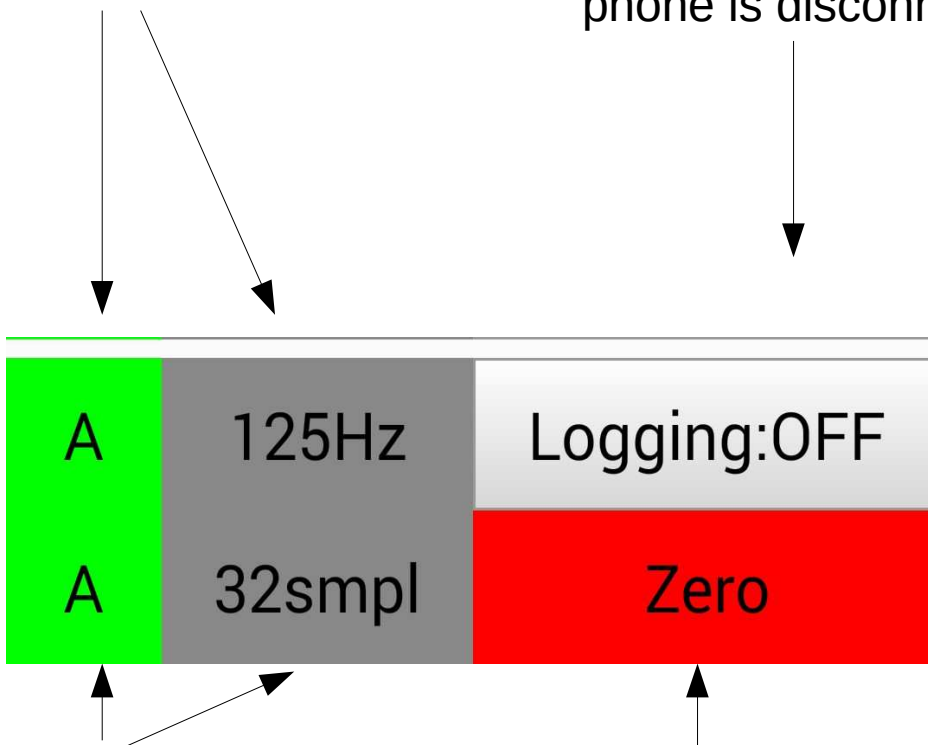
The frequency at which the ADC pulls samples.

The green button enables manual control.

Logging Enable

Tap to enable logging.

With logging enabled, if an SD card is installed, samples will be saved to it when the phone is disconnected.



Sample Buffer Depth

The number of samples the meter takes to perform DC and AC calculations

The green button enables manual control.

Note that AC calculations are inaccurate at buffer depths below 128.

Re-zero

Stores the present reading of both channels and subtracts them from subsequent readings. Useful for seeing changes from a baseline.

Does not affect AC measurements.

Graph View – Trend Mode

**All settings from the Meter View
are carried over to Graph View**

Auto-ranging is disabled in Graph View. To change settings, switch back to Meter View by turning the phone to portrait orientation.

Channel 1: Red

Channel 2: Green



Pause/Play Button

Starts and stops data flow to the chart.

Graph Settings Button

Brings up Graph Control

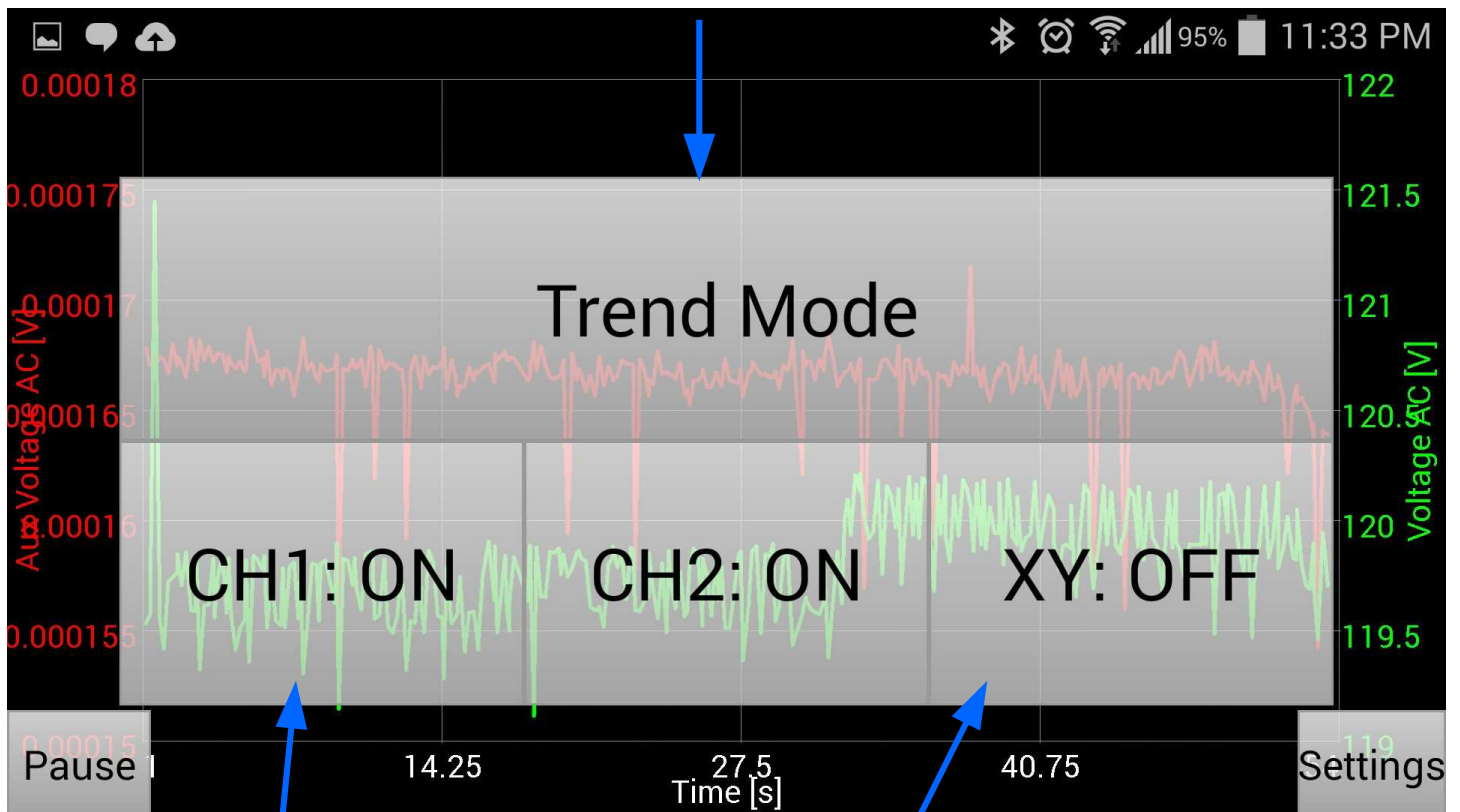
In iOS version this is done by tapping the background.

Graph Control

Trend to Buffer Mode Toggle

Trend Mode displays data aggregated slowly over time

Buffer view grabs a single sample buffer from the meter for closer analysis (useful for AC)



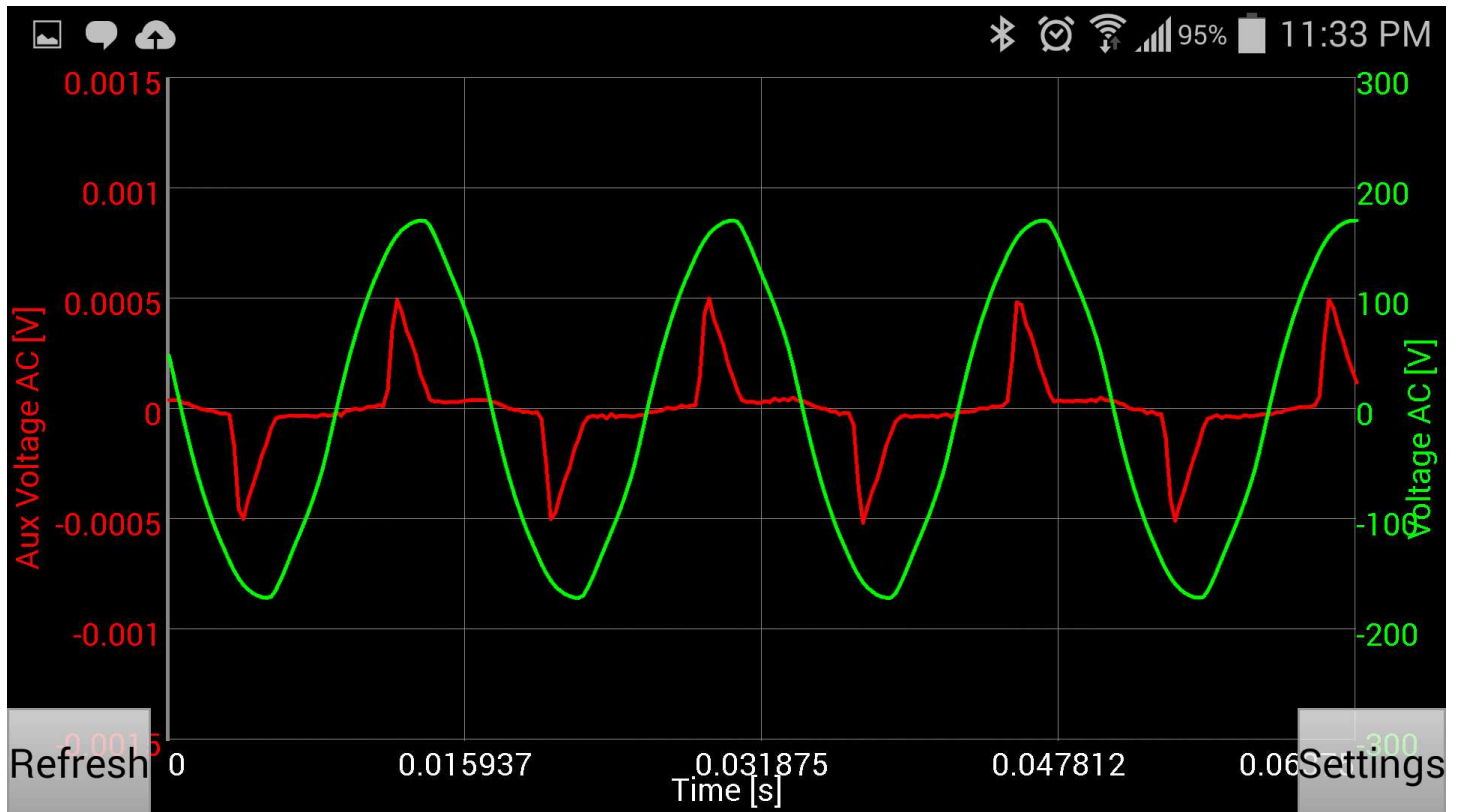
Channel Toggles

Toggles the display of Channel 1 and 2.

XY Mode

Instead of Time being plotted on the X axis, Channel 1 is plotted on the X axis and Channel 2 on the Y

Graph View – Buffer Mode



Refresh

Samples and download a new
buffer from the meter