

Supporting information

Figure 1.si – Software control window

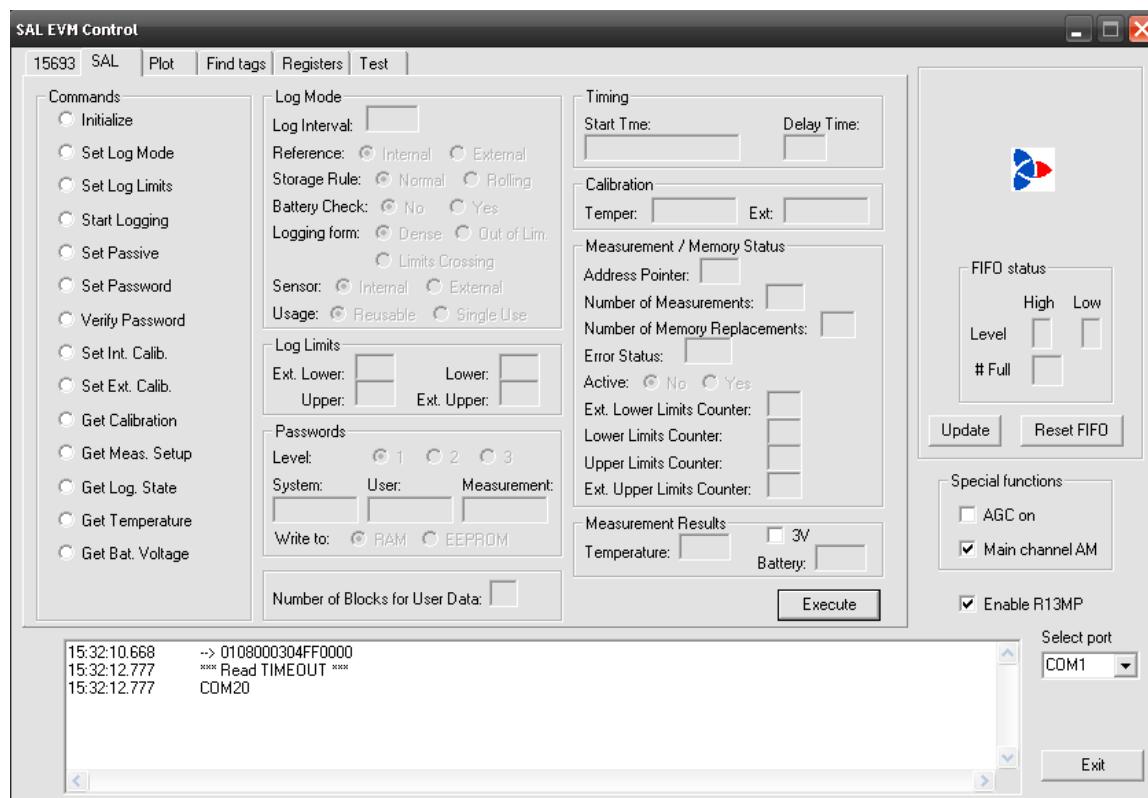
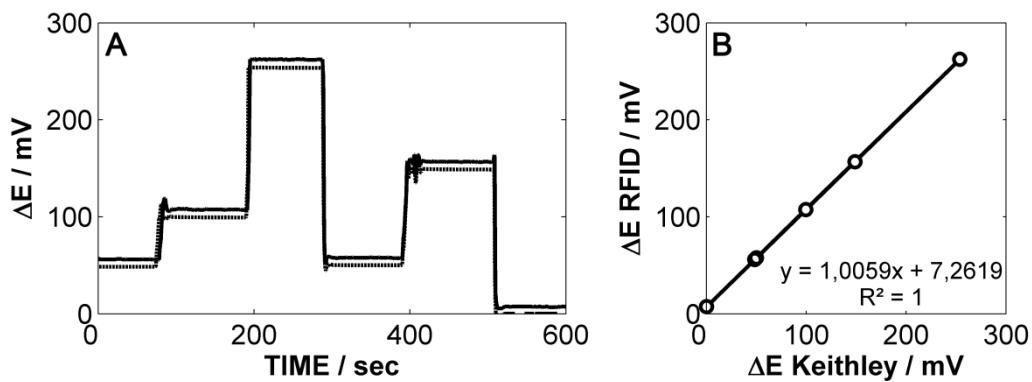


Figure 2.si – A) Potential trace of (--) Keithley and (-) GoSense RFID read from a regulated power supply. B) Comparison between both potentiometers.



Statistical tests:

1. T-test for slopes of Figure 3 (B and D).

K: $t_{(\text{Keithley vs. Lawson})} = 0.59$; $t_{(\text{Keithley vs. RFID})} = 0.31$; and $t_{(\text{Lawson vs. RFID})} = 0.92$; with $t_{(0.025,6)} = 2.45$.

Mg: $t_{(\text{Keithley vs. Lawson})} = 0.35$; $t_{(\text{Keithley vs. RFID})} = 0.61$; and $t_{(\text{Lawson vs. RFID})} = 0.35$; with $t_{(0.025,6)} = 2.45$.

2. ANOVA for values in Figure 4.

$F_{(10^{-7}M)}=0.007$ and $F_{(10^{-1}M)}=0.024$; with $F_{(0.05,9)}=4.414$.

3. T-test for slopes of Figure 5.

$t_{(Keithley \text{ vs. } \text{RFID})} = 0.64$; with $t_{(0.025, \infty)} = 1.96$.