ADC to Voltage to G force calculation

* From UI, we get a number from 0-850 representing excitation voltage (ADC\_VALUE)
* Convert accelerometer data in V
* Use previous battery level (from UI given in %) to get G force
* Calculate g force from these 2 values

1. Get full range of possible data

Full scale range (g) = [ExcV – 0.3V - (ExcV / 2)] / Sensitivity (V/g)

Full scale range (g) = [BAT\_LEVEL\_IN\_V – 0.3V - (BAT\_LEVEL\_IN\_V / 2)] / 0.0025

1. Get actual g force value