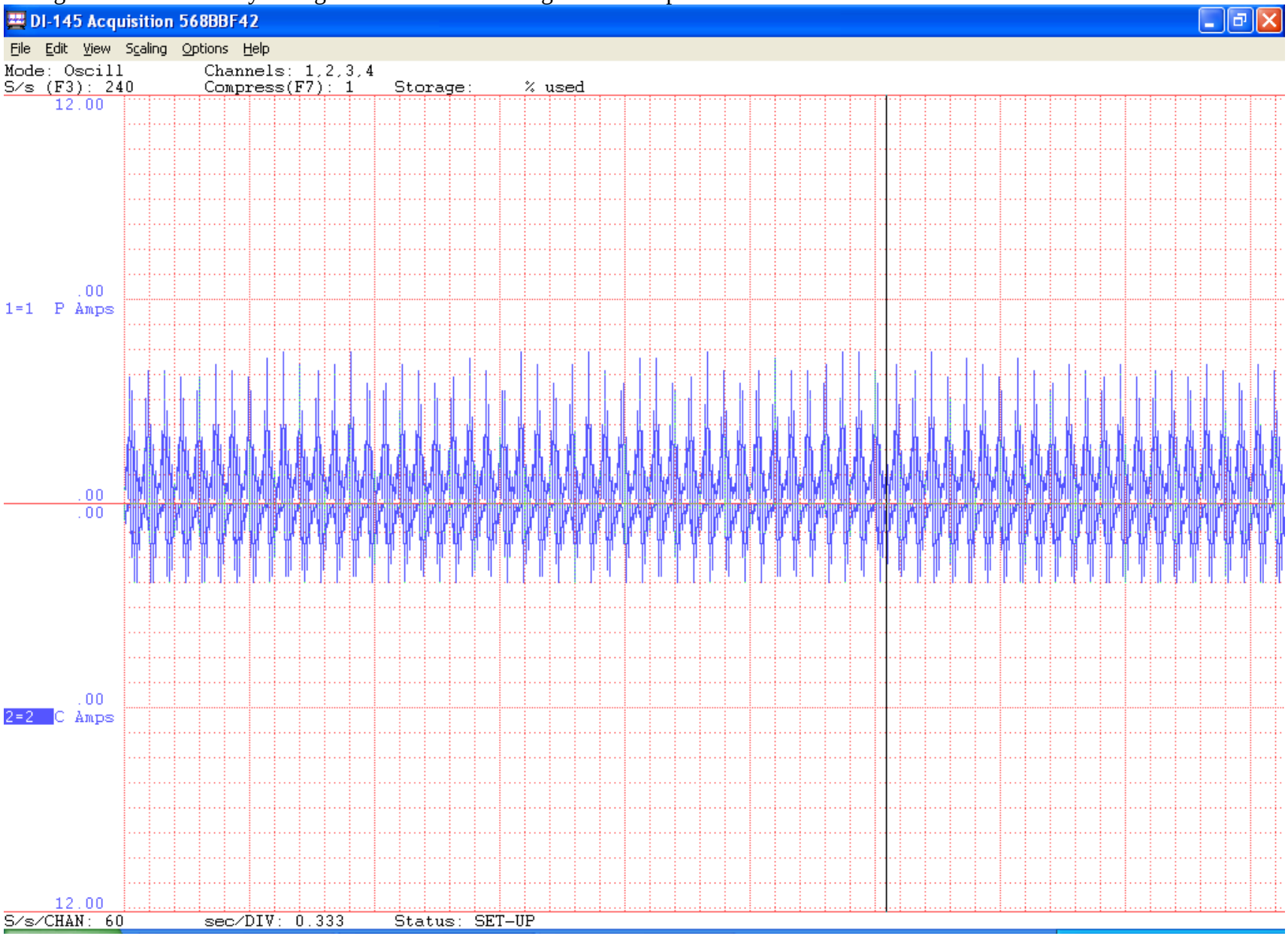
January 19, 2016 Test #1

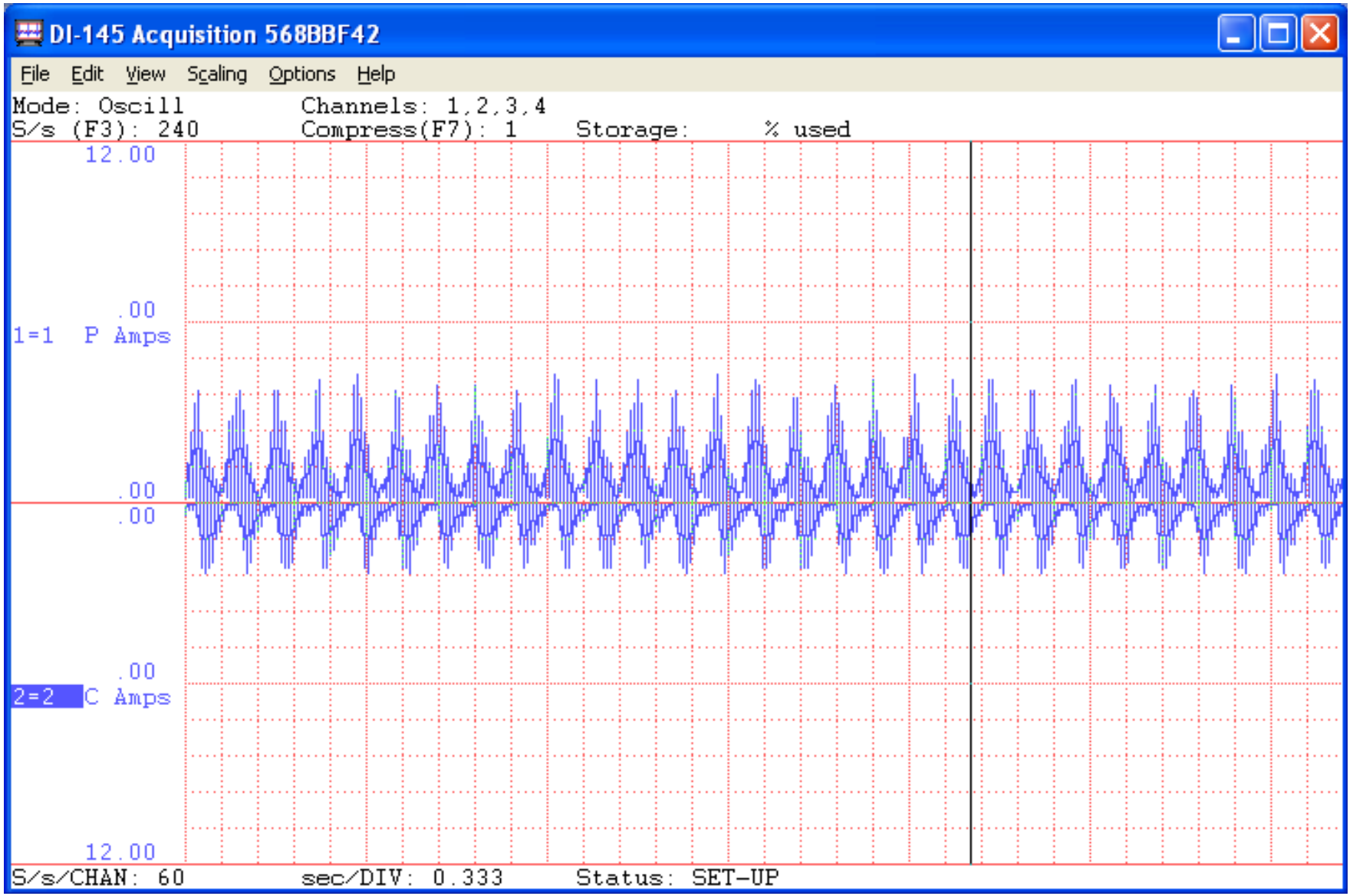
OScope #1 Wheel #2

SSG operating at ~ 250 RPM w/ a coil gap of 0.360” to 0.365” w/ trigger @22.5 ohms. The upper graph is Primary Amps and the lower is Charge Amps. You will note that the amperage firing frequency is less than 0.3 seconds with a slight lag to the Charge battery. All the below are the same basic configuration – the battery voltages have not been configured at this point.



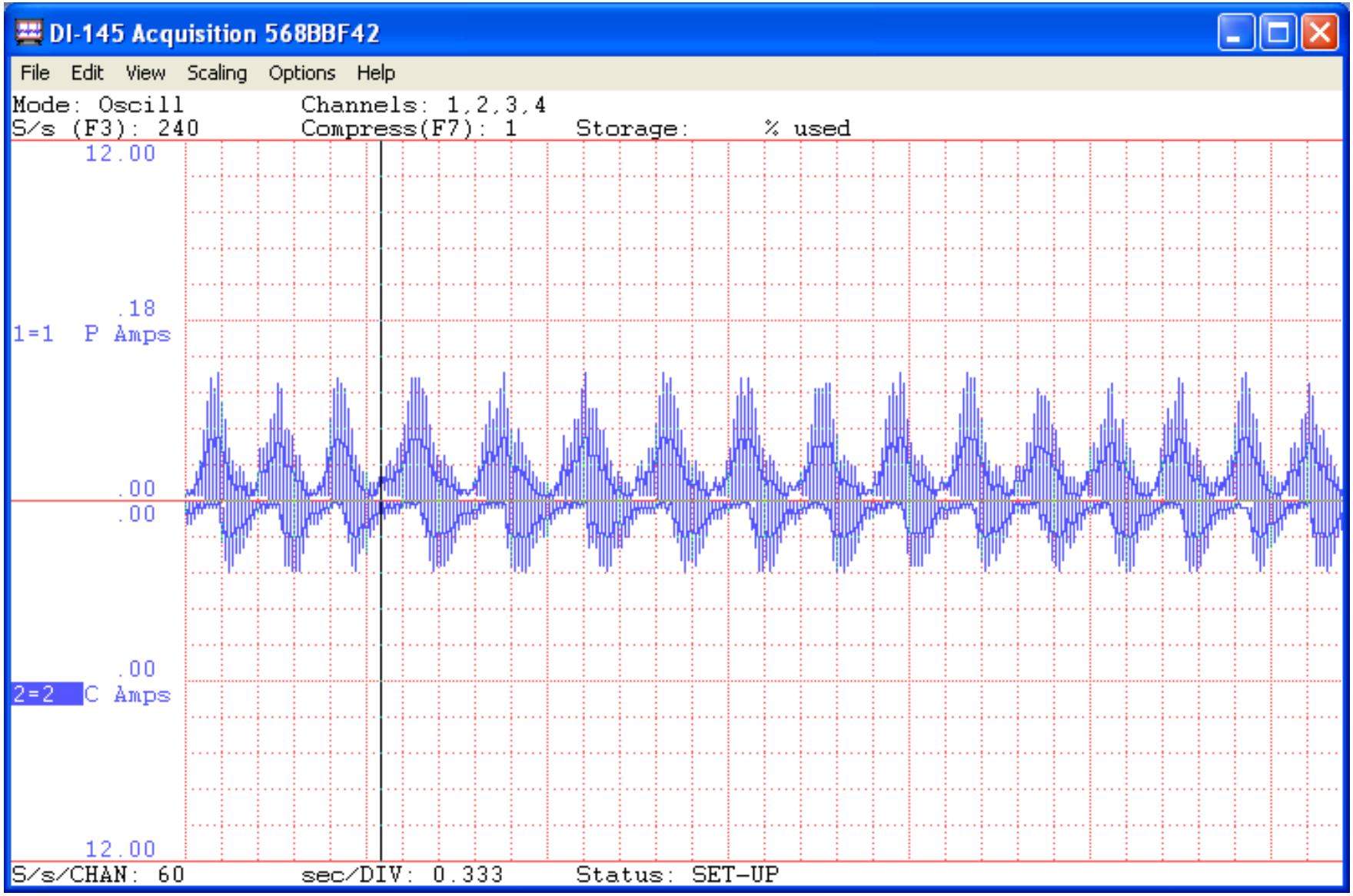
OScope #2

The RPM reading at this point is ~255 RPM with the same trigger resistance. The speed is increasing very slowly with the amperage draw/charge spikes increasing in interval. Slow process…



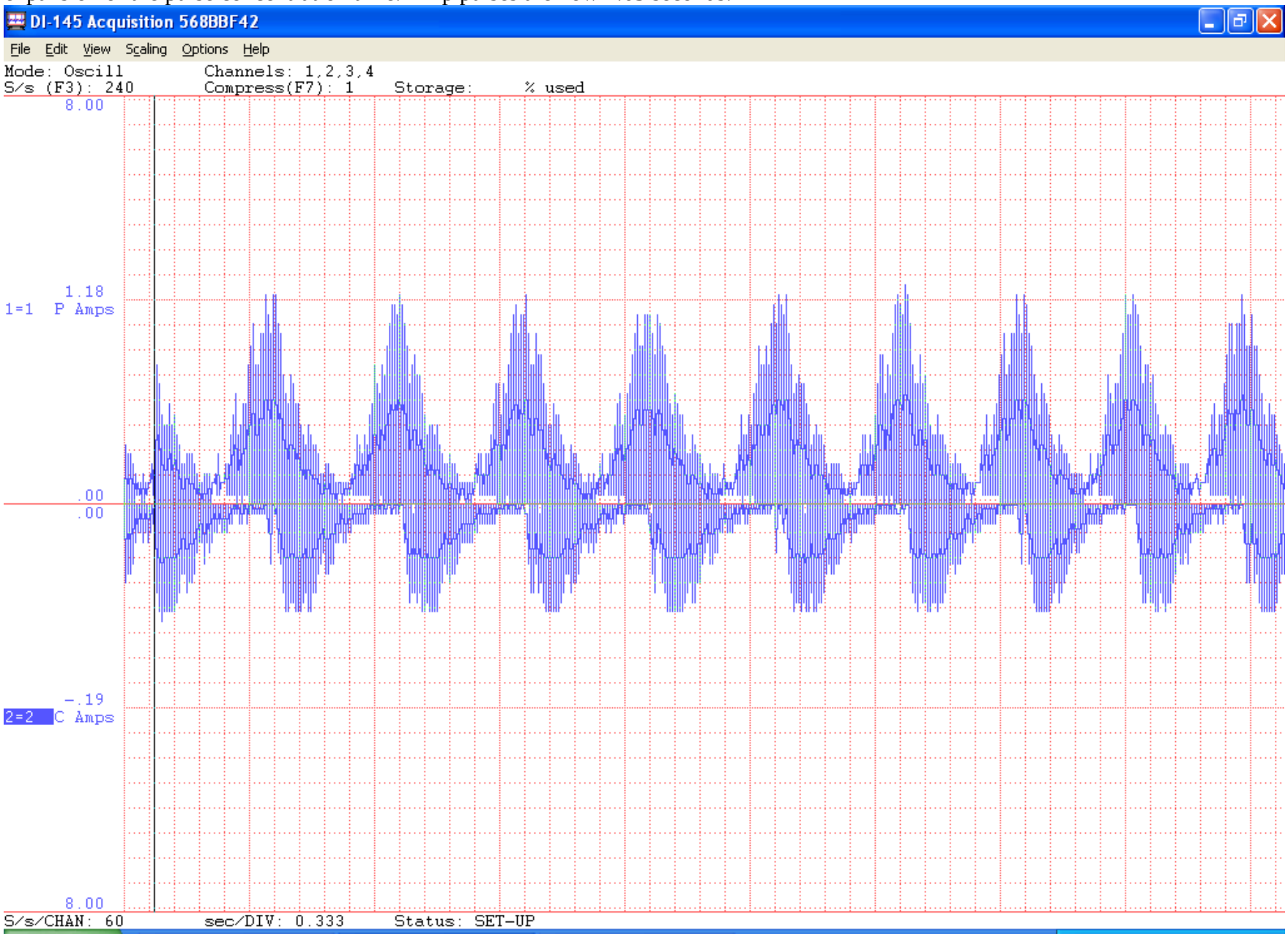
OScope #3

The RPM reading is at 256 – this is the beginning of a very sensitive area that will produce a number of surprises. Again, a slow process! You will note the expansion of the pulse concentration time.



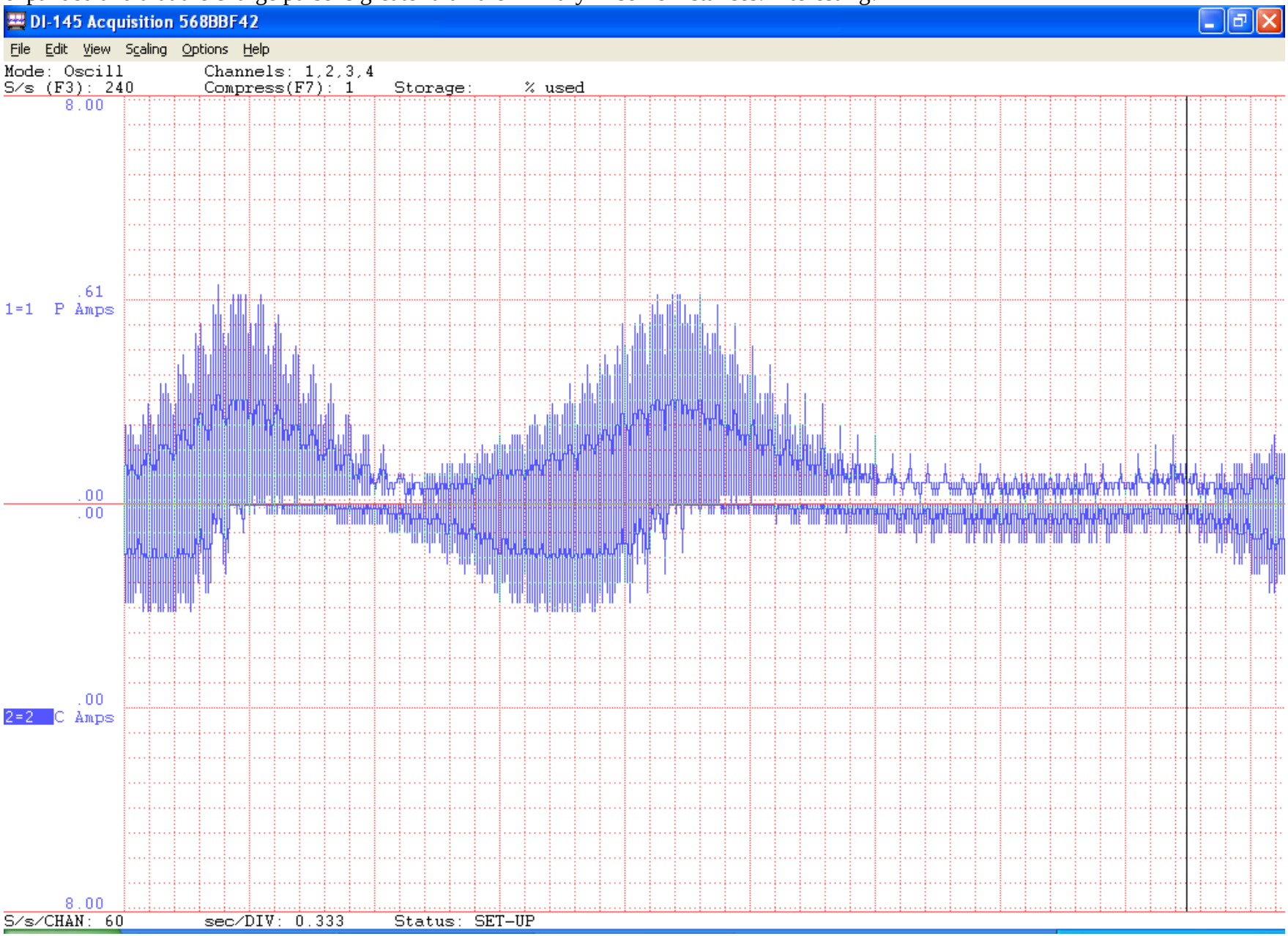
OScope #4

The RPM reading is at 256 – 257 RPM – this is the very sensitive area that will produce a number of surprises. Again, a slow process! You will note the expansion of the pulse concentration time. Amp pulses are now 1.65 seconds.



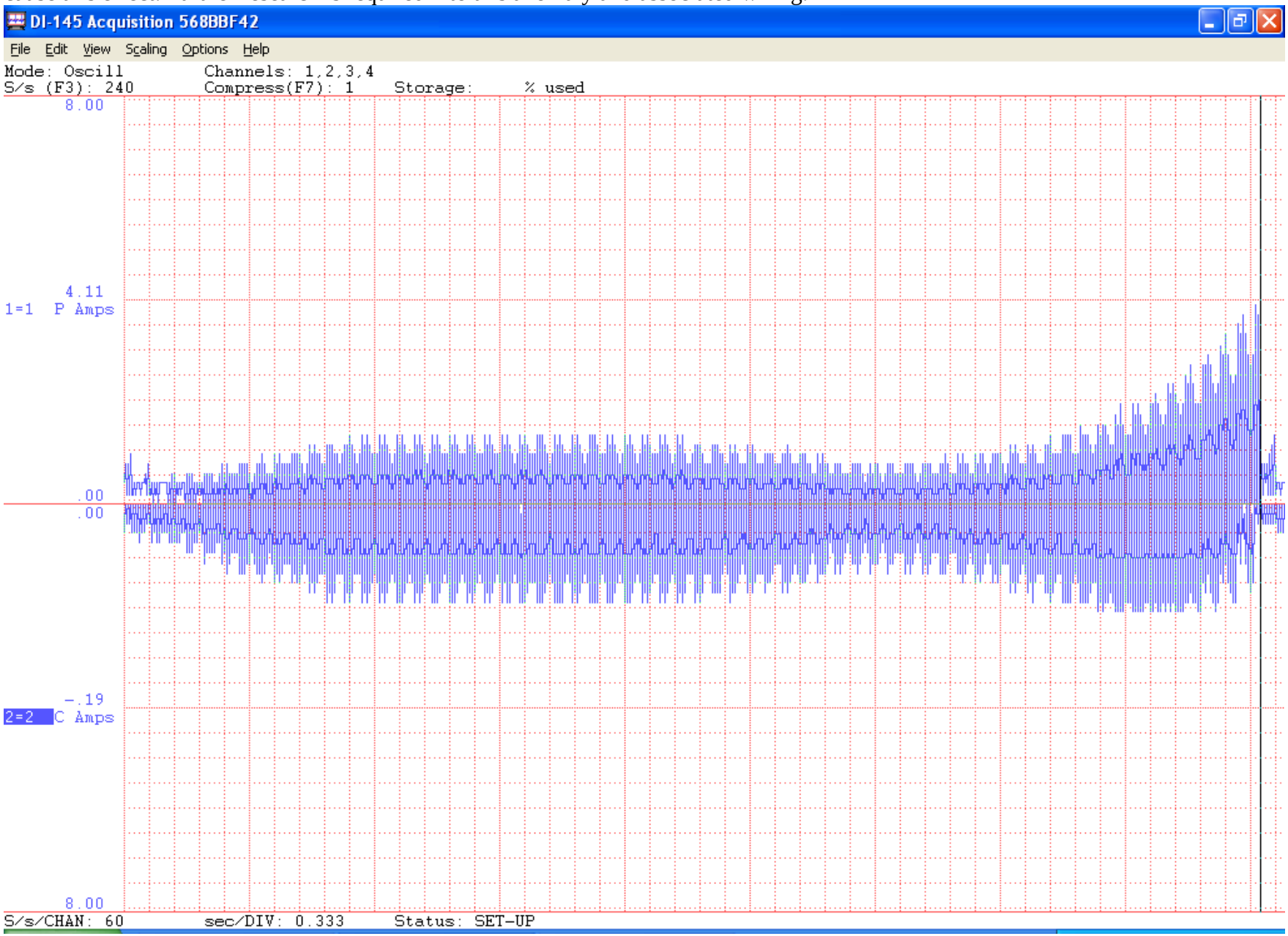
OScope #5

The below graph slowly progresses to the shape depicted below. Same Rpm's, though slowly increasing. You will note that the overall energy pulse has expanded and that the charge pulse is greater than the Primary in some instances. Interesting!



OScope #6

The below graph does not need any explanation – the amp values speak for themselves over nearly 15 seconds. Same config, nothing has changed to cause this effect. Further research is required into this anomaly and associated wiring.



OScope #7

The progression to a more stable set of values the RPM has slowly increased to over 257 and closer to 258-259.