



Rad Elec Inc.

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Rad Elec Technical Notice

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Inherent Voltage Discharge in Long-Term (Red-Labeled / 5 mil) Electrets

Refinements to the long-term electret manufacturing process have resulted in improved stability of long-term electrets as well as a reduction in the inherent voltage discharge (IVD) exhibited by these electrets. In reviewing data gathered over the last three years, Rad Elec has concluded that an **average** inherent voltage loss of **0.022223** volts per day (approximately 8 volts per year) more accurately reflects the IVD of the long-term electrets currently being produced. The chart below details the average inherent voltage discharge per day of the long-term electrets manufactured from 2015 to 2017 that have passed Rad Elec's QA/QC process.

Rad Elec's E-PERM® User's Manual, Online Calculator, Radon Report Manager software (RRM), and online spreadsheets will be updated to reflect this change. Any questions regarding this change should be directed via email to info@radelec.com.

<i>Long-Term Electret Inherent Voltage Discharge (in volts per day)</i>		
Year	Sample Size	Average Voltage Loss Per Day
2015	1601	0.020176
2016	3210	0.021509
2017	864	0.024839



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