Sepunaru Lab Homemade SECM Documentation

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**EPC10 Communication Protocols**

Using built-in batch communication protocol: write to /E9Batch.In, PATCHMASTER reads commands and writes response to /E9Batch.Out. Path defined in PATCHMASTER configuration. Command syntax defined in PATCHMASTER tutorial, chapter 14.

Electrochemical experiments are defined by PATCHMASTER pulse generator files. PGF names have prefix “\_” (e.g. “\_CV”) to denote they should only be run externally. All parameters within the PGF (i.e. starting voltage, segment duration) are set by a “pgf-param” (p1, p2, …). These parameters cannot be accessed directly via macro, so the workaround is a Protocol called “\_update\_pgf\_params\_”. In this Protocol, pgf-params are mapped to Values, which can be set using the macro command “SetValue int float”. This is done by the *HekaWriter.update\_values()* method, allowing external control of pgf parameters.

Python classes: HekaReader, HekaWriter