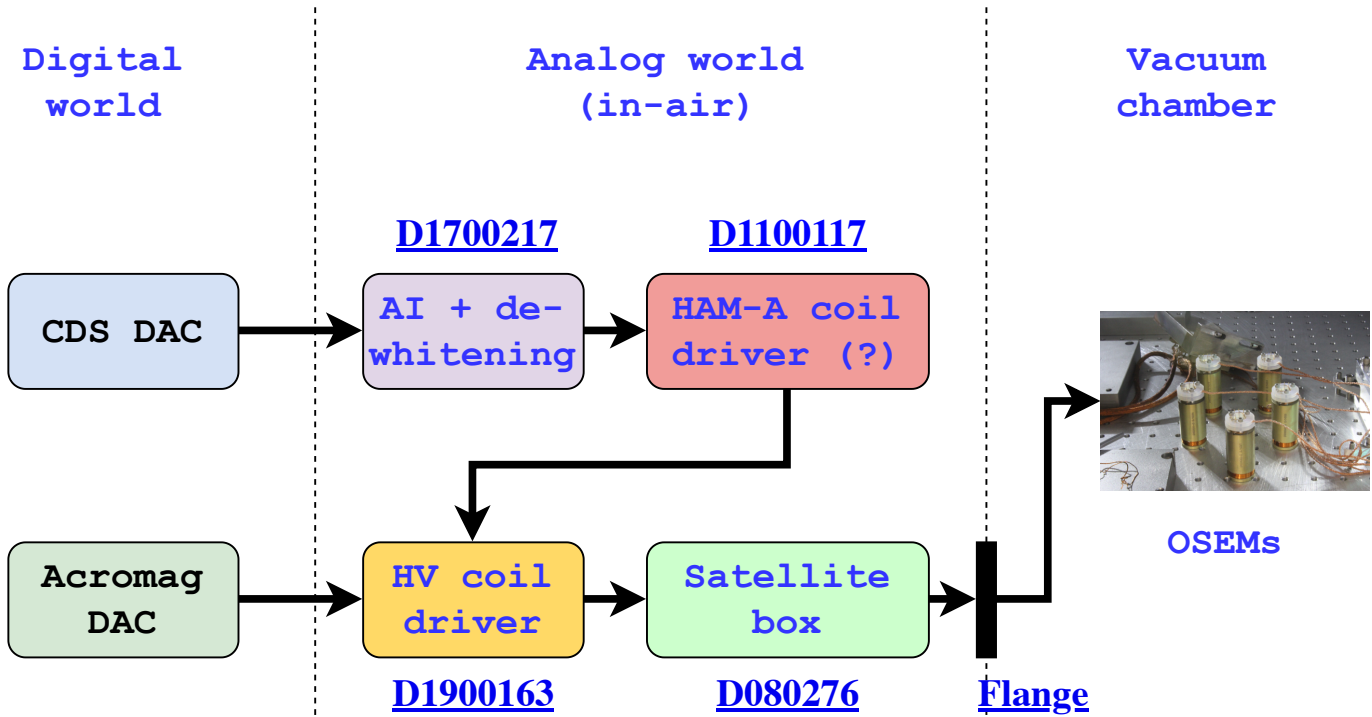
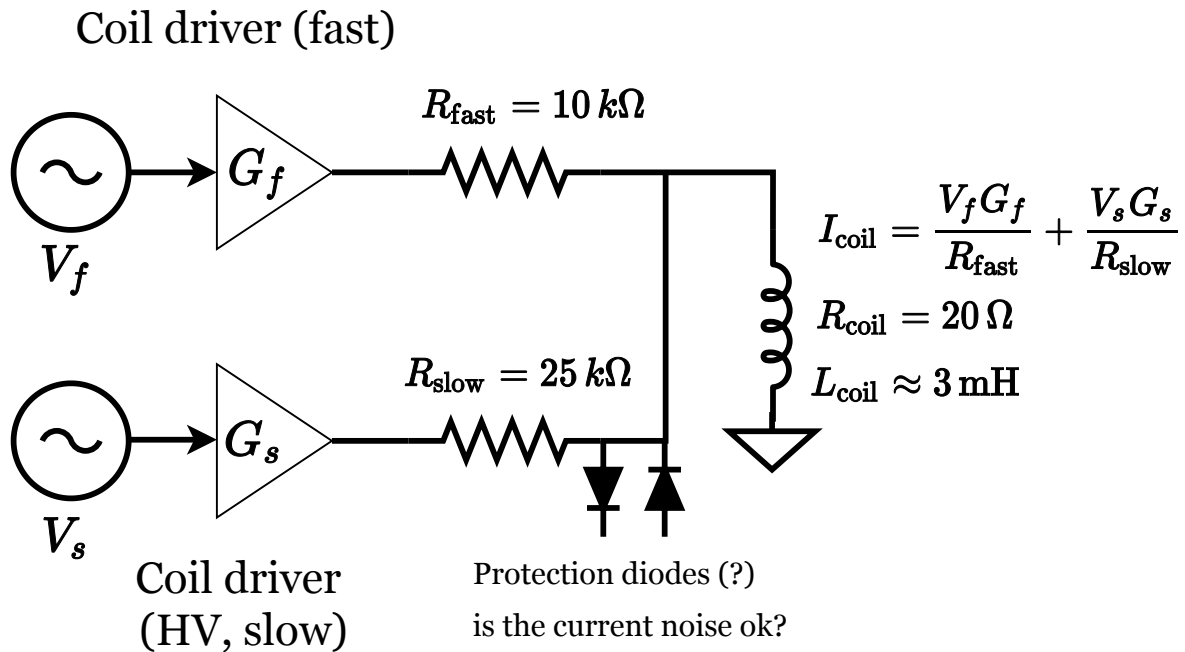


## Schematic signal flow



## Schematic circuit diagrams



### Decisions to be made:

1.  $G_s = 31$ , which gives a maximum of 12 mA current for biasing the optic. The noise performance is okay, but are we confident of getting the pitch balancing right so that this amount of bias will do the trick? Judging by existing voltages to the test-masses, we will be fine.
2. We wish to protect the fast drive electronics from the high voltage (if coil is disconnected). But **will the protection diodes destroy the current noise?** This isn't something datasheets quote as a spec...
3. **Is the HAM-A coil driver really the right choice** for the fast path? Do we want something with an "acquisition" mode and a "low-noise" mode?