



A *precision coffee grinder* can be implemented using the **HMC-1** hybrid controller.

The coffee beans are fed into the grinder by the feeder motor. The feeder motor is powered from the **HMC-1** on board TRIAC.

The grinder is powered by the **HMC-1** on board hybrid switch.

The time of grinding is determined by the button pressed on the **SPS-1** module. The **SPS-1** module then communicates to the **HMC-1** via the single wire protocol.

Setting the grind time is done by pressing and holding the **SPS-1** button you wish to program. Once the light associated with that button starts blinking, it is ready to be set (once in set mode, pressing another button will exit set mode). Let go of the button to be set. Re-press that button and hold it for the desired grind time (the grinder will start running so the user can measure the weight of the ground coffee to determine when it is time to stop). Once the desired time has passed, release the button being set. The new grind time will be saved and is ready to use.