



Application Note

HAU Valve Driver

DUAL COIL DRIVING JOYSTICKS WITH TWO HAU VALVE DRIVERS

When a dual coil driving joystick is to be used to control 2 HAU valve drivers, a filter is required to convert the joystick's PWM output into a voltage that will control the HAUs.

1. Hook the filter to the joystick prior to adjusting the joystick. Monitor the joystick's outputs with voltmeters for this adjustment. The joystick should be adjusted such that its output goes from 0 volts when just actuated, to maximum voltage when fully actuated.
2. Hook up the HAU to the filter and the valve coil. Monitor the HAU's coil output current for this adjustment. The HAU should be adjusted so that it has just gone to zero output current with the joystick centered. Adjust the MIN pot for a small current reading and then back off slowly until the reading goes to zero. Fully actuate the joystick and adjust the HAU's MAX pot for desired full scale current. Repeat the MIN and MAX adjustment until both are correct.
3. The joystick's minimum or threshold adjustment should be set so that the HAU goes to the desired minimum on current when the joystick is just moved off of center. This eliminates the deadband, Repeat the entire setup procedure if the joystick's minimum and maximum controls interact.

See HAU users guide for complete adjustment procedures.