



TOPIC: Installing the H-plate Magnet Power Supply

Quantum Design is no longer using Kepco magnet power supplies for the PPMS. Any Kepco power supply needing replacement will be replaced by our bipolar supply, known as the H-plate magnet power supply. Follow these instructions to replace a Kepco supply with an H-plate supply.

1. Set the magnetic field to zero and the temperature to 300 K. Wait for both conditions to be met.
2. Turn off the Model 6000. Set the breaker on the front of the Kepco supply to off.
3. Remove and discard all cables connected to the back of the Kepco supply, which is on the right half of the PPMS console when facing the back of the console. □
4. Remove the Kepco power supply. Remove only the supply, not the magnet relay tray, which is on the left half of the console as viewed from the back. □
5. Insert the new H-plate supply in the empty slot left by the Kepco.
6. Remove the magnet control cable, part number 3077-002, from the M1 port of the magnet relay tray, which is on the left side of the PPMS console when facing the back of the console. Attach the cable to the H-plate supply. The other end of the cable should be attached to the P7 Magnet port on the Model 6000. □ □
7. Connect the magnet current leads, part number 3072-002 (shipped with the H-plate supply), to the studs on the back of the H-plate supply. Be sure to attach the black lead to the black stud, and the blue lead to the blue stud. Plug the lemo connector into the red lemo port on the PPMS probe. □ □
8. Plug the H-plate supply into the power strip. Turn on the Model 6000. You can now request a magnetic field to operate the new H-plate supply. □

At the end of this operation, the magnet relay tray is left in the PPMS console. This hardware is no longer used, but need not be removed from the console. Also, if you have the ACMS option, the servo driver for the sample transport resides in this tray.