

High precision battery analyzer and temperature chambers

Beamline: Industrial Science

Contact: Burke Barlow

A battery analyzer is used for characterizing sensitive metrics such as capacity retention, coulombic efficiency, and voltage slip. It is also used to identify subtle changes in the charge/discharge curves of batteries. An 8-channel high-precision analyzer is installed in lab 1072 (not mobile).

Measuring these quantities requires precise ambient temperature control, which is provided by two temperature control chambers, each with 16 electrical feedthroughs. Other instruments can be interfaced with cells inside the temperature control chamber.

