



FIG. 9.10 Schematic diagram of a data-logging system, illustrated for the case of critical-current measurements. The same logging system is useful, however, for many other measurements, such as resistance vs. temperature or susceptibility vs. temperature, and it can be used to simultaneously log more than two variables. Data can be continuously streamed into the computer, or conditional comparators can trigger acquisition of individual data points when either variable (x or y in the figure) changes by more than a set minimum.