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The high temperature tube furnace of THERMANSYS is part of our high temperature - electrochemical measurements system. We measure both electronic and ionic conductivities of dense sintered perovskite samples, with Electrochemical Impedance Spectroscopy (EIS). The conductivity measurements are carried out in a specially designed sample holder, placed in the THERMANSYS furnace, using a potentiostat/galvanostat and a Frequency Response Analyser (FRA). Measurements are obtained in the whole temperature range between room temperature and 1000°C. Impedance data are collected in the frequency range 0.1Hz – 1 MHz using a stimulus of 20 mV amplitude and are analyzed with the EIS Spectrum Analyzer software.

We have been using the furnace for more than two years and no malfunction has occurred during this period. The people of THERMANSYS have been ready and willing to all our queries, while their work is reliable and professional.

