

TEMPERATURE SENSOR CALIBRATOR AND METHOD OF CALIBRATION

Abstract

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A temperature sensor calibrator including a first chamber configured to receive a temperature sensor in a liquid, a second chamber separate from the first chamber, the second chamber surrounding the first chamber, a temperature-regulating component configured to adjust a temperature of a liquid received in the second chamber, and a temperature-homogenizing component disposed in the second chamber, the temperature-homogenizing component configured to enhance temperature uniformity of a liquid in the second chamber. The temperature sensor calibrator may further include an electronic module having a data acquisition unit and a plurality of input channels. The data acquisition unit may be further configured to acquire data simultaneously from the plurality of input channels in a synchronized sampling manner. Further embodiments relate to methods of calibration.

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FIG. 4

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