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26.10.2026, 15:30

Impact of temperature gradient on measurement uncertainty in the calibration process of liquid glass and electric thermometers

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Abstract

The article presents the problem of studying temperature gradient in thermostats and climatic chambers and their impact on measurement uncertainty. Based on the tests of gradients in the Julabo F12 thermostat, carried out at the Length and Thermometry Laboratory of the Regional Office of Measures in Bydgoszcz, an analysis of obtaining optimal measurement conditions allowing to maintain the required level of CMC in the laboratory was developed.

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ISSN 2300-8806

Year 2021

Volume 1

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