



TESTING SERVICE

CALIBRATION OF PYROMETERS AND BLACKBODIES FOR RADIATION THERMOMETRY

SCOPE OF TESTING

Verification of the proper operation of pyrometers and blackbody sources used in radiation thermometry. The tests are intended to evaluate the functionality of the devices and their suitability for temperature measurements under specific operating conditions.

TECHNICAL PARAMETERS

- temperature range: pyrometer testing in the range from $-20\text{ }^{\circ}\text{C}$ to $350\text{ }^{\circ}\text{C}$,
- measurement uncertainty: $0.3\text{ }^{\circ}\text{C}$ in the temperature range from $-20\text{ }^{\circ}\text{C}$ to $32\text{ }^{\circ}\text{C}$, and $0.5\text{ }^{\circ}\text{C}$ in the temperature range above $32\text{ }^{\circ}\text{C}$.

INTENDED USE

- enterprises in sectors including:
 - machinery – temperature monitoring of machines, equipment, and components,
 - automotive – temperature measurement of vehicle parts and systems,
 - refrigeration – temperature control of refrigeration systems and equipment,
 - construction – thermal insulation testing of buildings,
 - food and catering – temperature monitoring during production and food service processes,
- manufacturers of radiation thermometers (non-contact thermometers).



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