

# UTILIZATION OF MULTIPLE SHORT HEAT CONSUMPTION MEASUREMENT METHOD FOR DIAGNOSTICS OF HEAT SOURCE OF EXISTING BUILDING

## PART 1: THEORETICAL BASIS OF THE METHOD

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### Abstract

The paper presents the way to determine the required heat power for heat source diagnostics for the existing residential building. For this purpose, it was proposed to designate the required thermal power of the building using the original method of multiple short heat consumption measurement in existing residential building with natural ventilation. The first part presents the main ideas of the method.

### Streszczenie

W artykule zaprezentowano określanie wymaganej mocy cieplnej dla diagnostyki źródła ciepła istniejącego budynku mieszkalnego. W celu zaproponowano wyznaczanie wymaganej mocy cieplnej budynku z wykorzystaniem oryginalnej metody kilkukrotnego krótkiego pomiaru zużycia ciepła w istniejącym budynku mieszkalnym z wentylacją naturalną. W części pierwszej przedstawiono główne idee metody.

**Keywords:** Heating, ventilation; In- situ thermal diagnostics; Heat source; Thermal power of the building; Thermal characteristics; Existing residential building; Heat consumption measurements.