

Monitoring of Pig Body Temperature Using Infrared Sensors

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ABSTRACT: *In this study, an experiment was carried out using three infrared sensors and one body temperature sensor on three pigs. During feeding, the rear body temperatures of the pigs were measured 30 cm from the infrared sensors for over a period of 28 days. Results showed a high correlation with room temperature. The height measured by collecting additional data for 28 days, was compared with the results. When compared 30 cm from the infrared sensor temperature with the measured temperature, it was found an error range of 0.002-1.72, the average of which is 0.48. With the use of the algorithm, height was determined. In conclusion, use of an infrared thermometer made daily monitoring easy. In the ongoing experiments, the possibility of developing a system that determines the errors that could be corrected by using infrared sensor based on humidity variables will be investigated.*

Keyword: *Infrared sensor, monitoring system, pig, temperature*

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