

Comparison of different computer-aided data acquisition systems for physics lessons

Patrick Sekyra, Erik Kremser - TU Darmstadt

The goal of this work is to highlight comparison criteria and the subsequent comparison by means of a utility analysis of different computer-assisted data acquisition systems for use in physics lessons.

For this purpose, the data acquisition systems were compared on the basis of a selection of physics experiments, which resulted in distinguishing features and criteria. Finally, the data acquisition systems are evaluated by means of a value-benefit analysis, resulting in a comprehensible and transparent ranking.

The wireless sensors from Pasco, Phywe and Vernier were available for comparison.