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Innovative Systems – ADIASYSTEM®

A Product Information Sheet by the Lifts and Machinery Business Area

ADIASYSTEM® is a computer based method of measuring elevators and escalators and properly documenting test results. The complete equipment kit consists of measuring instruments and specific software tools. Via notebook PC and specially developed electronic transducers various safety relevant aspects are recorded directly on site. ADIASYSTEM® provides approved procedures that help elevator experts conduct essential statutory tests and examinations. All results are precise and expressed in quantified figures, which can be easily saved for documentation or compared with previous findings.

The scope of application

Specific measurements made with the ADIASYSTEM® can be used for initial acceptance tests, for periodic tests and verifications as well as for expert opinions. Findings not only reflect important safety issues but cover aspects such as performance characteristics and reliability. The main testing methods particularly comprise, but are not limited, to the following:

- Assessment of the correct adjustment of the safety gears (no test weights required)
- Quantitative determination of the traction (no test weights required)

- Recording of speed/time and distance/ time diagrams
- Determination of deceleration profiles or travel quality characteristics
- Verification of the function of the re-leveling device (hydraulic elevators – no test weights required)
- Assessment of the adjustment of hydraulic safety valves
- Recording of pressure / time diagrams
- Correct measurement of actual physical values (mass of car and counterweight, rated speed, travel distance, etc.)
- Determination of kinematic properties of elevator doors

Your benefits

Generally, the application of the ADIASYSTEM® significantly reduces costs compared to traditional load tests. All measuring results are determined with high accuracy and recorded using state-of-the-art documentation.

Modern measuring procedures enable experts to conclude qualified technical statements, to identify wear and defects at an early stage and thus help to extend the performance and life time of technical plants and installations.

TÜV SÜD Industrie Service GmbH · Tel./Fax +49 (0)89 5791-1109 / -2989
Contact: Alfons Petry · E-mail: alfons.petry@tuev-sued.de

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