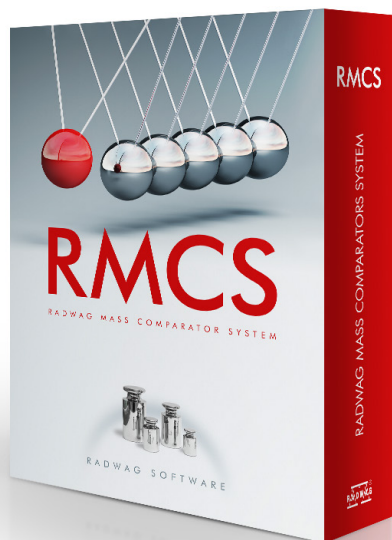
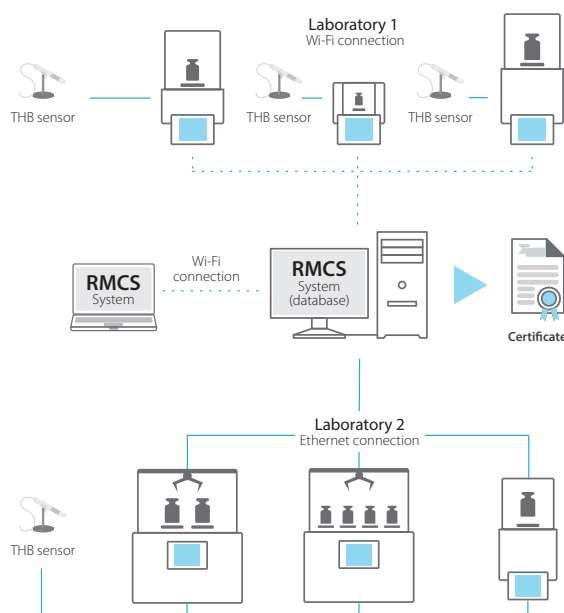


RMCS System

Computer management of calibration of weights and mass standards using RADWAG-designed mass comparators.



RADWAG Multiple Comparator System



An exemplary connection diagram based on RMCS system

Features

Comprehensive Support of Calibration Orders

The RMCS system enables carrying out calibration procedures in laboratory, starting from the moment the order is placed, through procedure performance, to the moment of issuing the calibration certificate.

Remote Preview and Online Mass Comparator Operation

The system enables preview of mass comparator operation. Using it you can start a calibration plan for automatic mass comparators via a computer.

Databases

The databases of RMCS system allow to store information required for convenient operation. Stored data concerns mass comparators and their parameters, operators, reference weights, customers, orders, thermo-hygro-barometers, etc. The calibration results database facilitates search for a performed calibration at any moment.

OIML R-111 Compliance

The system calculates the end result of calibration and estimates measurement uncertainty in accordance with OIML R-111-1. It features the database of maximum permissible errors for various masses and classes of mass standards in accordance with OIML R-111. It also allows to determine custom value of maximum permissible error for custom mass standards.

Calibration Certificates

The software supports different templates of calibration certificates (e.g. various languages) and provides their intuitive editing.

Ambient Conditions Monitoring

To each mass measurement carried out during calibration, current ambient conditions recorded in the vicinity of the mass comparator are assigned. Recorders and sensors of THBR system enable constant record of temperature, humidity, atmospheric pressure and calculation of air density.

Supervision Over Measuring Equipment

The RMCS system collects and stores current metrological characteristics of laboratory measuring equipment (e.g. reference weight data, standard deviation for mass comparators, corrections for thermo-hygro-barometers).

Information on the expiry date of measuring equipment calibration are presented to the operator via messages on the screen and an e-mail.

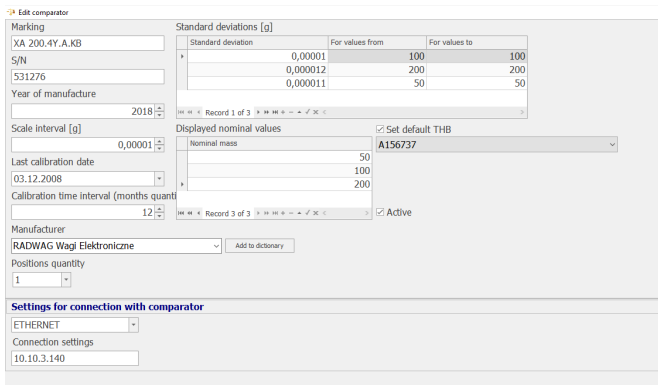
CMC

The system stores laboratory data concerning the measuring capability, and facilitates placing it on a Calibration certificate. It enables determining CMC value, e.g. for custom mass standards.

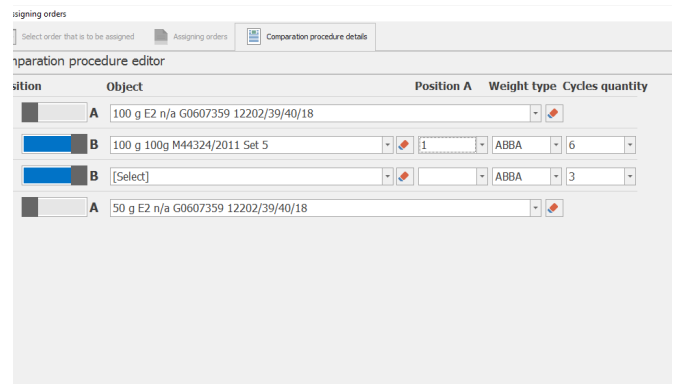
File Storage

The function enables automatic copying of calibration data to another computer. The data that can be copied are calibration reports, orders forms, photographs attached as appendixes to orders, etc.

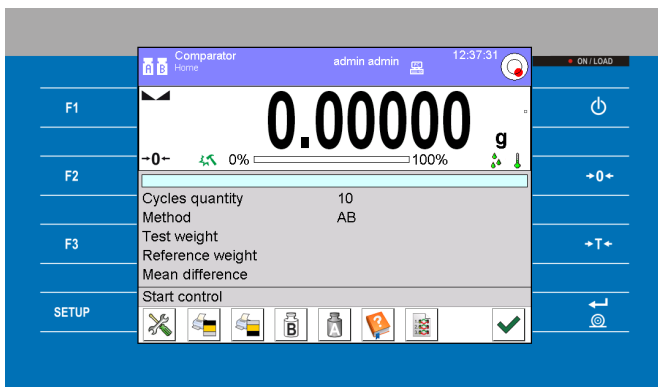
Screenshots



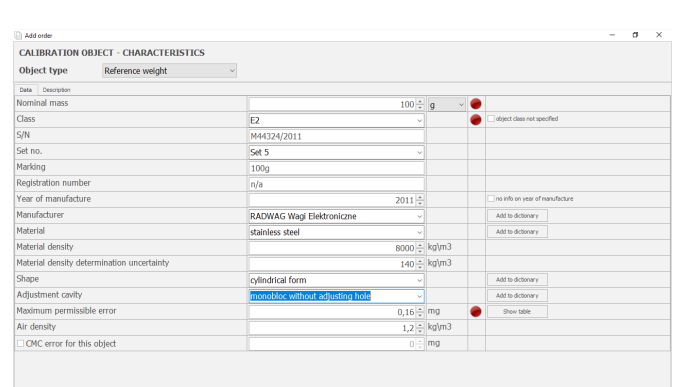
Configuration of a new mass comparator



Assigning test and reference weights on a four-position automatic mass comparator

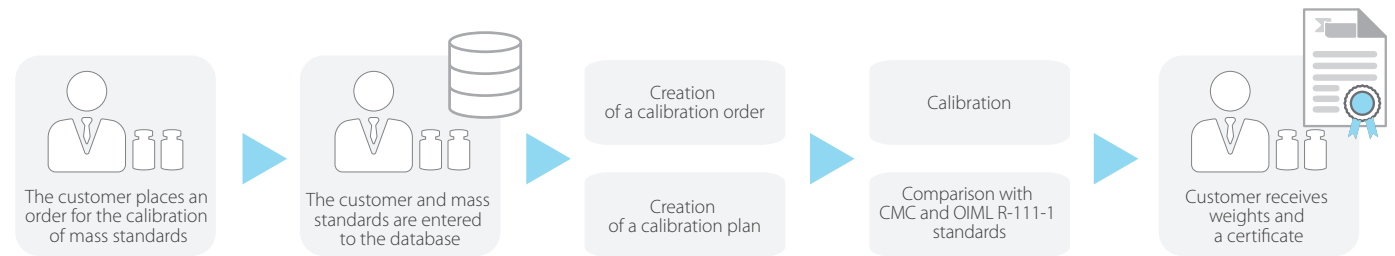


Remote preview of mass comparator screen



Adding new test weight to an order

Block Diagram



The process of weights certification

Compatible with

Mass comparators

- Automatic vacuum mass comparators
- UMA automatic mass comparators
- AK-4 automatic mass comparators
- AKM-2 automatic mass comparators
- 4Y manual mass comparators

Hardware recommendations

Client computer or server in a weighing system consisting of max 10 weighing instruments

PC computer

- operating system: Windows 10 / 8 / 8.1 / 7 (excluding Starter version)
- 2 GHz dual-core processor or faster
- minimum 2 GB operating memory
- minimum 10 GB of free space on a hard drive
- 1280x1024 computer monitor
- DVD drive
- default system font size: 96 dpi
- MS SQL Server 2008 R2 or later version;
- server systems: Windows Server 2016 / 2008 SP2 / 2008 R2
- printer operating in Windows environment

Server in a weighing system consisting of max 10 weighing instruments

PC computer

- operating system: Windows 10 / 8 / 8.1 / 7 (excluding Starter version)
- 3 GHz quad-core processor or faster
- minimum 8 GB of operating memory
- minimum 50 GB of free space on a hard drive
- 1280x1024 computer monitor
- DVD drive
- default system font size: 96 dpi
- MS SQL Server 2008 R2 or later version;
- server systems: Windows Server 2016 / 2008 SP2 / 2008 R2
- printer operating in Windows environment