# Processing Software EC 200 for Windows™

**HAENNI**
A Baumer Company

## Processing Software EC 200

Processing software for the wheel load scales WL 104, WL 108 and WL 103 and for the sensors WL 400 and WL 110, for measuring wheel loads and calculating axle, part and total loads of vehicles with pneumatic tires.
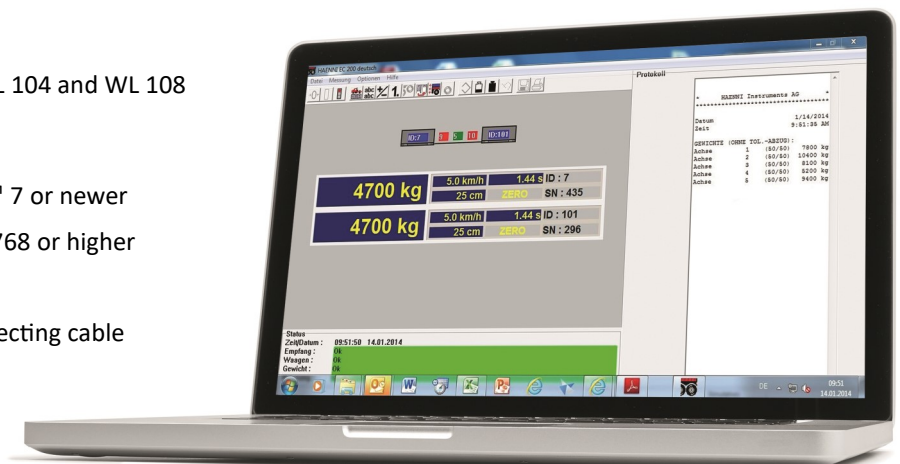
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| **Scales** | • WL 104 (static or dynamic mode) |
| | • WL 108 |
| | • WL 103 [1] |
| **Sensors** | • WL 400 |
| | • WL 110 [1] |
| **Interfaces** | • PC Interface E 9023.0 (for WL 104, WL 108 (cable data transfer only) and WL 400 |
| | • PC Interface E 9023.1 (for WL 104, WL 108 (cable and radio data transfer) and WL 400 |
| | • Interface Box E 9021.0 for WL 104 [1] |
| | • Interface Box E 9008.0 for WL 110 [1] |
| | • Connecting Cable USB E 6916.3 (2 m) or E 6916.4 (5 m) for WL 103 and E 9008.0 [1] |
| | • Connecting Cable RS 232 E 6916.0 (2 m) or E 6916.1 (5 m) for WL 103 and E 9008.0 [1] |
| **Data export** | • DDE (dynamic data exchange) |
| | • XML file (customizable) |
| | • CSV file (customizable) |
| **Approval** | Data storage for WL 103, WL 104 and WL 108 (according OIML R76) |
| **System requirements** | • Computer with Windows™ 7 or newer |
| | • Display resolution 1024 x 768 or higher |
| | • USB 2.0 port |
| | • RS 232 port (only for connecting cable |

## Design and Function

The EC 200 is a Windows™ based software to process weights of vehicles measured with HAENNI wheel load scales or sensors. The menu of the EC 200 is used to control the measurement process. Custom texts can be entered or retrieved for each measurement. A configurable vehicle catalogue allows appropriate overload calculation of axle, part and total load based on the selected vehicle type. Appropriate deductions can be configured and are computed automatically. It is possible to configure the software for automatic weighing. The layout of the protocol printout is partly configurable. The EC 200 is able to control a long distance display

For legal metrology, the EC 200 embeds certified software modules with data storage and supplementary indication for all static scales (WL 103, WL 104 and WL 108). Further, it includes the main indication for the scale WL 104 (static modus).



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1) discontinued products, but still supported

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| **Languages** | English, German, French, Spanish, Czech, Dutch, Hungarian, Portuguese, Korean, Romanian (version 2.12.0), prepared for additional languages. |
| **Data ports** | USB 2.0 or RS 232 (only for connecting cable RS 232) |
| **Measuring modes** | WL 104 static mode, WL 108 and WL 103:<br>Weighing of a vehicle in one operation with the same number of scales as wheels, consecutive (partial) measurement with any number of scales, unloaded scales are ignored. Single side measurement.<br>WL 104 dynamic: Consecutive measurement with any number of scales<br>WL 400: Consecutive measurement with 2 or 4 sensors.<br>WL 110: Consecutive measurement with 2 sensors. |
| **Zeroing** | WL 104 static mode, WL 108 and WL 103: automatic zero check and setting after starting the measuring procedure, zero tracking.<br>WL 104 dynamic mode, WL 400, WL 110: automatic zero tracking. |
| **Measurement** | WL 104 static mode, WL 108 and WL 103: manual or automatic operation when the scale is loaded and the indication is stable. Measures to avoid incorrect weighing: Check for stability, protection against double weighing of an axle, undo and repeat of a measurement if selected in the setup.<br>WL 104 dynamic mode, WL 400, WL 110: start and stop by key stroke, or automatic start with stop after a time-out, which can be altered in the setup. Automatic measurement of the axles. |
| **Tare and net weight** | The net weight is calculated using the tare weight input or a previous measurement. |
| **Vehicle data** | Editable limit sets for any number of vehicle types. A set contains the limits for axles, axle groups, total weight and the position of subtotals. Selection of the vehicle type prior or after the measurement, or if selected in the setup, automatic reduction of the selection according to the weighed number of axles |
| **Tolerance deduction** | Deduction of the single or multiple scale tolerance (at first calibration) according to its division, and/or percent and fixed deduction. Editable in the setup. |
| **Text lines** | Up to 30 editable text lines which can be placed anywhere in the printout. These lines are printed with every protocol. An additional text block with maximum 20 lines is available. These lines may be complemented or overwritten for each measurement. |
| **Storing** | The measurement results are stored in a result file. Due to the binary format the result file is secured against counterfeit. Altering with a text editor is not possible without damaging the result file. Automatic storing is possible by enabling the corresponding option in the setup.<br>The default result file name is JJMMDD[Counter].RES. The extension can be modified.<br>The maximum result file size can be limited (360 kByte / 1.2 Mbyte /1.44MByte / 10 MByte / 100 MByte / 1000 Mbyte). The counter will be incremented if the selected size is reached. |
| **Converting** | The result files may be converted to any spread sheet program format for further processing using the integrated conversion function. |
| **Printout** | Various formats can be selected in the setup. Individual formats may be produced. Previously stored results may be printed out at any time. |
| **Menus** | File, Measurement, Options, Help. |
| **Accessories** | Long distance display (displayed text and values customizable) |
| **Approval** | The legally relevant software (S56 for WL 104, S96 for WL 108, S57 for WL 103,) is a separate module that is used by the EC 200 processing software. It contains the primary indication for the WL 104 (S56), the secondary indication the WL 108 (S96) and WL 103 (S57) and the data storage (according OIML R76) to store legally relevant measurement data for 90 days. Backups can be created for permanent storage. The legally relevant software has its own help system. |
| **Help and Manuals** | The EC 200 has an integrated help system. Operating instructions are available as a PDF document. |

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