GUM Workbench Standard Version 1.4

GUM Workbench Standard Version 1.4 supports the evaluation of uncertainty for measurements with one result and one budget table.

The calculations follow the principles given in the DIN/ISO/BIPM Guidelines on the evaluation of uncertainty in measurement and are consistent with the following guidelines:

- ISO Guide to the Expression of Uncertainty in Measurement, International Organization for Standardization, ISBN 92-67-20188-3
- BIPM Guide to the Expression of Uncertainty in Measurement
- EA-4/02: Expression of the uncertainty of measurement in calibration
- NIST Technical Note 1297: Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results
- Eurachem/CITAC Guide to Quantifying Uncertainty in Analytical Measurement
- UKAS Guide M3003: The Expression of Uncertainty and Confidence in Measurement
- Guide to the Expression of Uncertainty in Measurement. Supplement 1: Propagation of distributions using Monte Carlo method

GUM Workbench 1.4 supports the following functions:

- User defined model equation with up to 512 input quantities
- One result quantity and one budget table
- Interim results
- Trigonometrical and other functions
- Type A and Type B evaluation
- Numerical derivatives
- User defined functions
- Import from MS-Excel
- Automatic documentation
- Report function
- Export function (Text, Rich Text Format, HTML)
- Graphics and pictures in reports and exports
- Monte Carlo simulation
- Symbolic derivatives
- Unit validation
- Correlation matrix validation

System requirements:

Processing power: Pentium 600 MHz or faster
Memory: min. 256 MB
Hard disk: min. 20 MB, max. 110 MB
Operating system: Windows XP, Vista, 7, 8, 8.1, 10 and NT-based server

Screen views

A demo of the GUM Workbench Standard Version 1.4 is available in the Download Section free of charge.

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