

PeakSimple software Datalogger mode

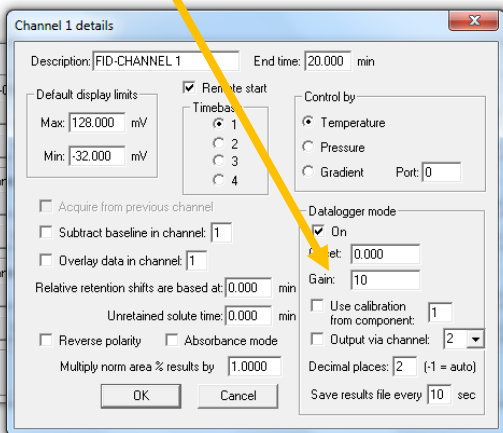
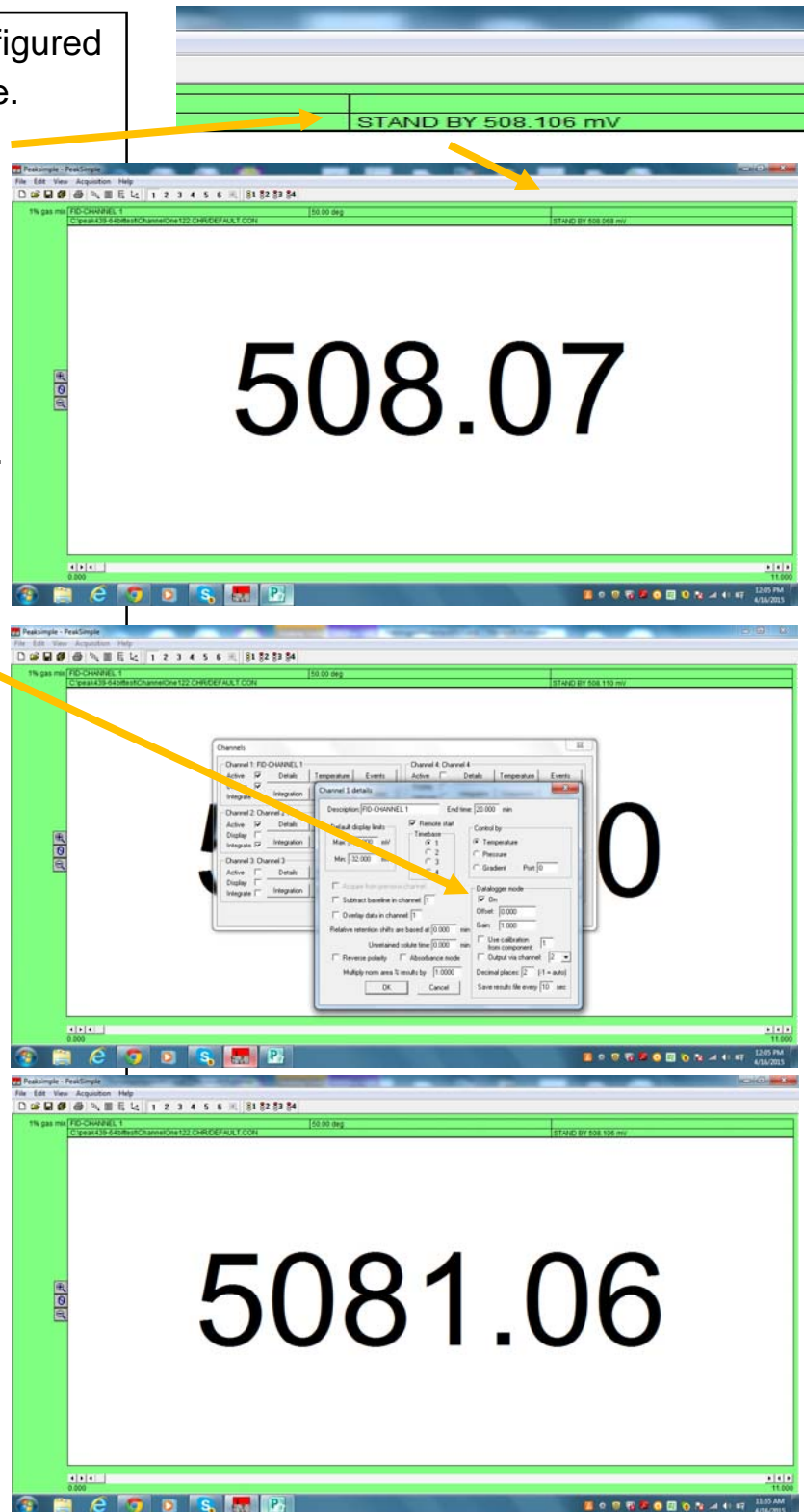
Version 4.44 and later April 2015

PeakSimple software can be configured into "DATALOGGER" (DL) mode.

In DL mode, the detector signal which always appears at the top right hand corner of each PeakSimple channel is also optionally displayed in big numbers on screen, even while the original signal is still displayed un-altered.

DL mode is selected in each channels' Details screen.

If the gain is set to 10, then the number on screen is 10 times higher than the original because of the times 10 multiplication factor.



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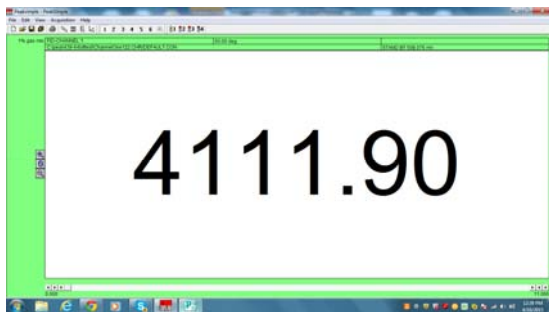
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If the "Use calibration from component" box is selected, and the component number also entered, then the displayed number is derived from a calibration curve instead of a single multiplication factor.

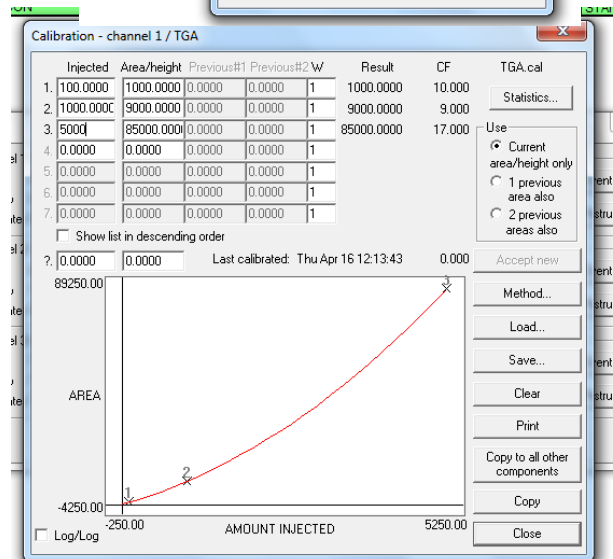
A component is entered in the Component Details screen.

The calibration curve for that component can correct for a non-linear response of the detector signal. A non-linear calibration curve can look like this, and will produce this displayed result.



The 'Channel 1 details' dialog box shows various settings for the channel. The 'Datalogger mode' section has 'Use calibration from component' checked. The 'Component number' is set to 1. Other settings include 'Description: FID-CHANNEL 1', 'End time: 20.000 min', and 'Control by: Temperature'.

The 'Channel 1 components' dialog box shows a table of components. The first component is 'TotalGas' with a calibration file 'TGA.cal'. The 'Component details' sub-dialog is open, showing 'Peak number: 1', 'Peak name: TotalGas', and 'Multiplication factor: 1.00000000'.

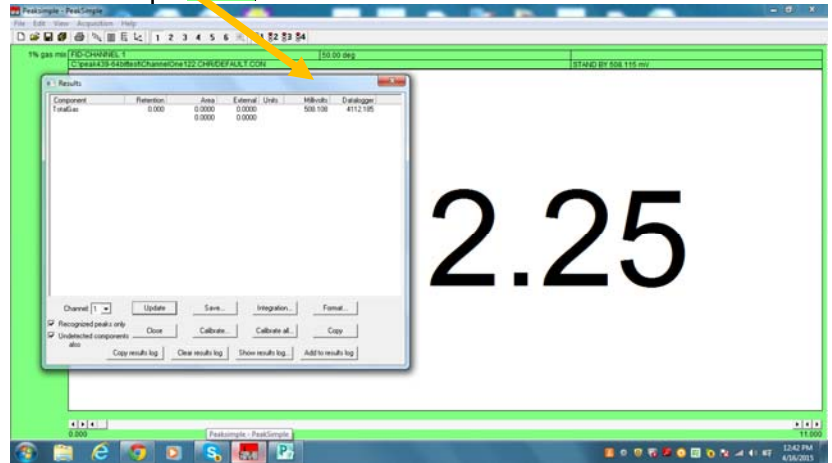
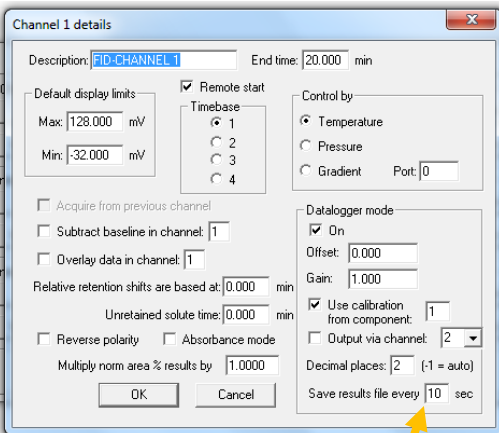
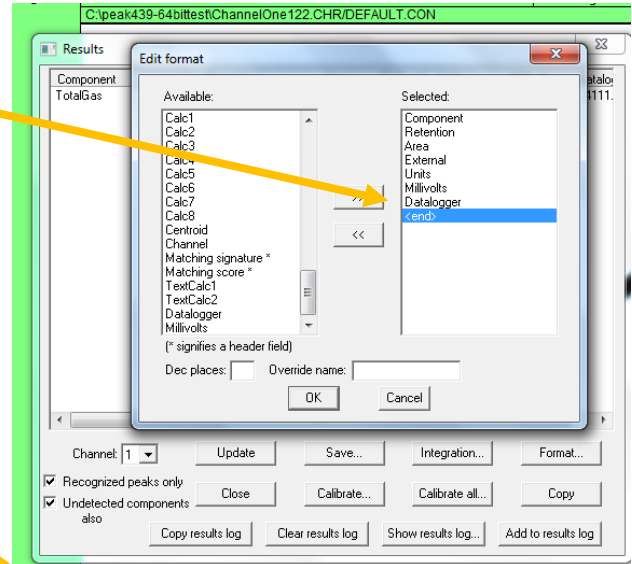


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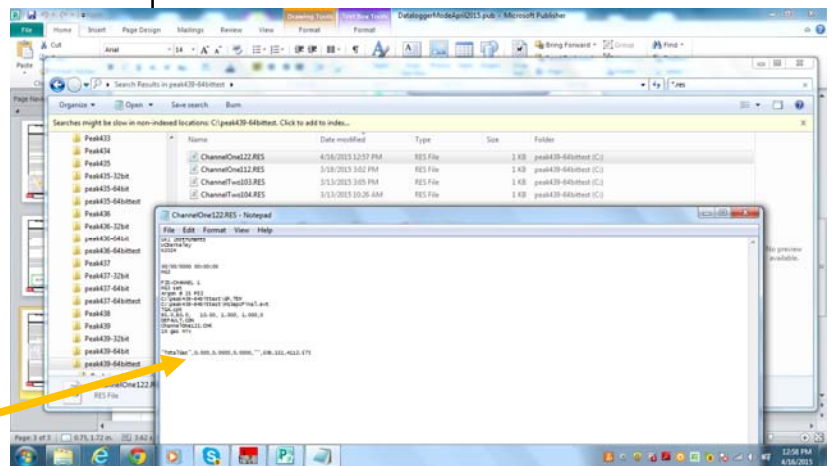
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If the Results screen is formatted to include the “datalogger” and “millivolts” fields, then the most recent “millivolts” (the original, un-altered signal from the detector) and “ datalogger” (the linearized signal) field are displayed and would be saved with the results file (filename.res) at the end of each analysis. Click to Update button to see the latest reading.



If the “Save results every” box is set, then the res file will be written to disk at that interval. This allows another software program (a mudlogging program for example) to pick up a Total Gas reading every second or so just by reading the datalogger number from the res file.



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