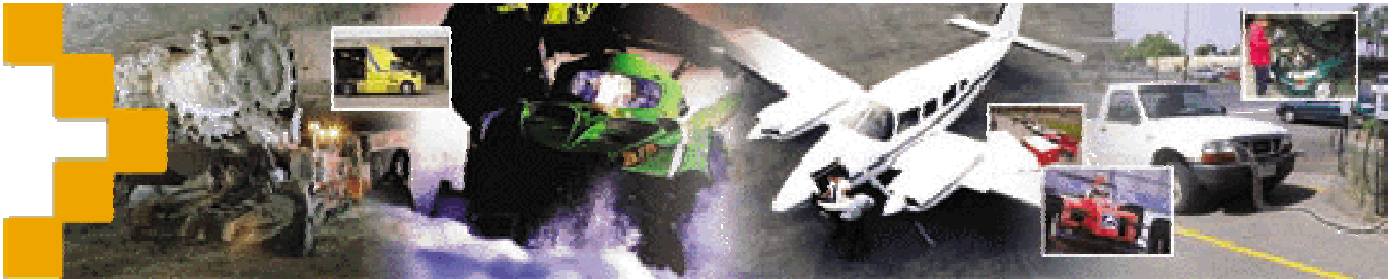


Analyzer V8 new features

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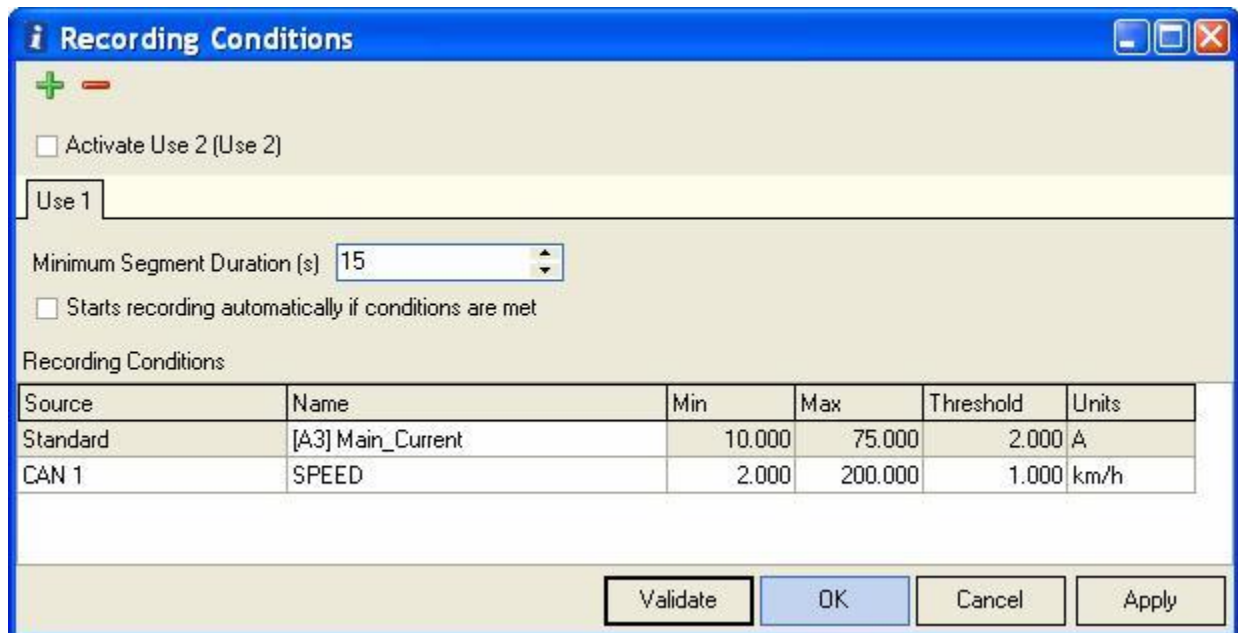
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1 More flexible recording conditions

The new recording conditions make the Recorder more flexible under autonomous operation. The Recorder can now be triggered from a combination of the following Recorded channels:

- Detectors
- External sensors group A, B or C
- CAN signals from any type
- GPS speed

The Recorder will start recording automatically when all the trigger channels value are within the preset Minimum and Maximum levels. Alternately, it will stop as soon as one of these conditions is not met.

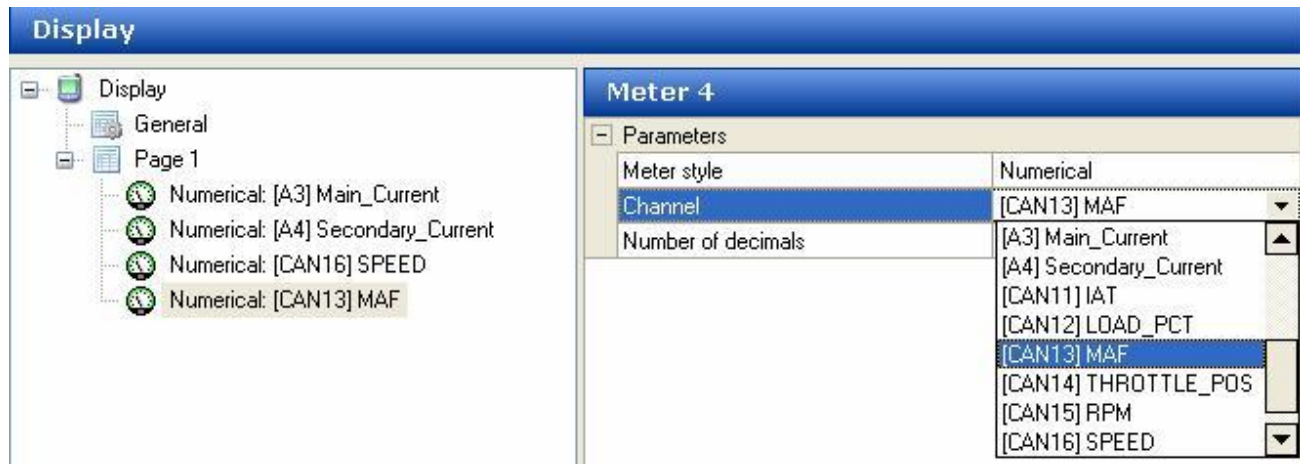


The dialog box titled "Recording Conditions" features a blue title bar with standard window controls. It includes a green plus icon and a red minus icon. A checkbox labeled "Activate Use 2 (Use 2)" is present. Below it is a yellow highlighted area with a "Use 1" label. A "Minimum Segment Duration (s)" field is set to "15". Another checkbox is labeled "Starts recording automatically if conditions are met". A table titled "Recording Conditions" is shown below, with columns for Source, Name, Min, Max, Threshold, and Units. The table contains two rows: "Standard" with "[A3] Main_Current" and "CAN 1" with "SPEED". At the bottom, there are buttons for "Validate", "OK", "Cancel", and "Apply".

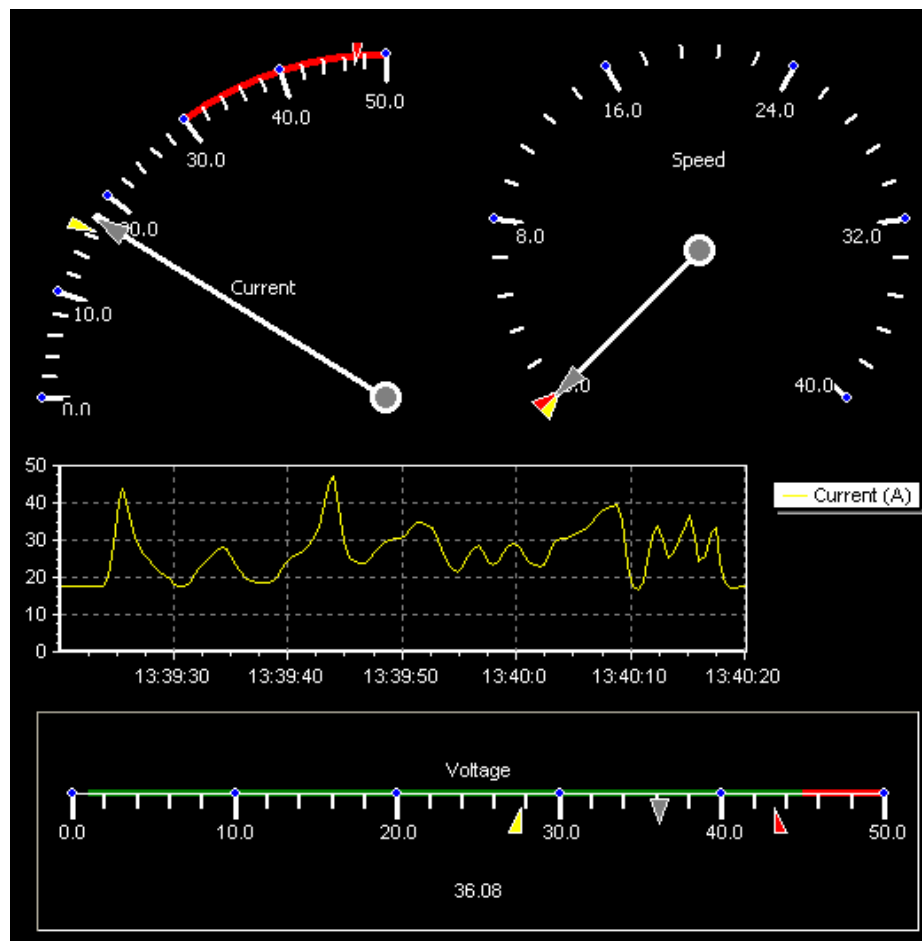
Source	Name	Min	Max	Threshold	Units
Standard	[A3] Main_Current	10.000	75.000	2.000	A
CAN 1	SPEED	2.000	200.000	1.000	km/h

2 Real-time display of CAN and COM channels

All the recorded parameters, including CAN and COM channels, may now be visualized on the PC Real-time display and the Palm PDA Real-time display.

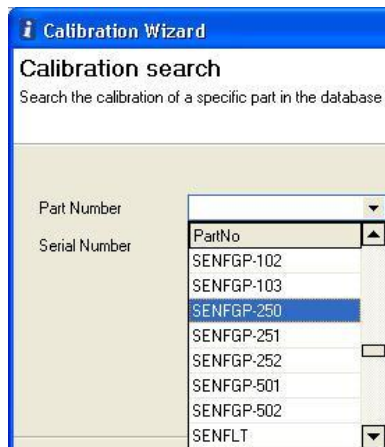


The PC may also be configured to display live gauges, numerical meters and graphs.



3 Sensor calibration database

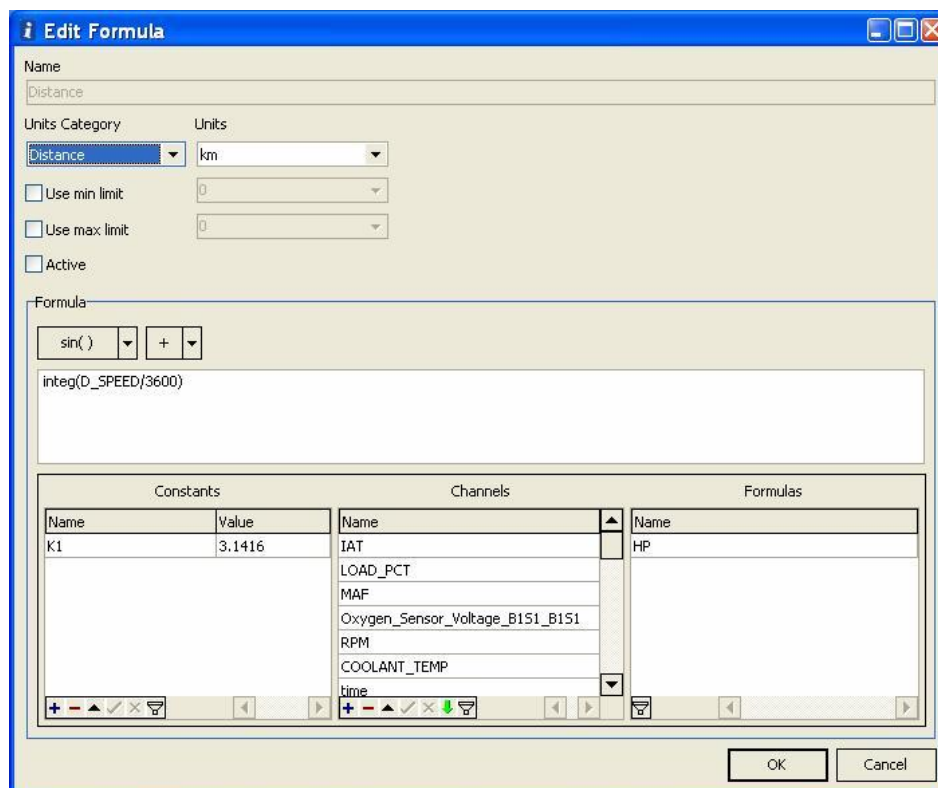
Sensor calibration has never been easier! Select your part from the drop down list, enter its serial number and you're done. The database can be updated from ISAAC Instruments' website.



4 Improved math channels

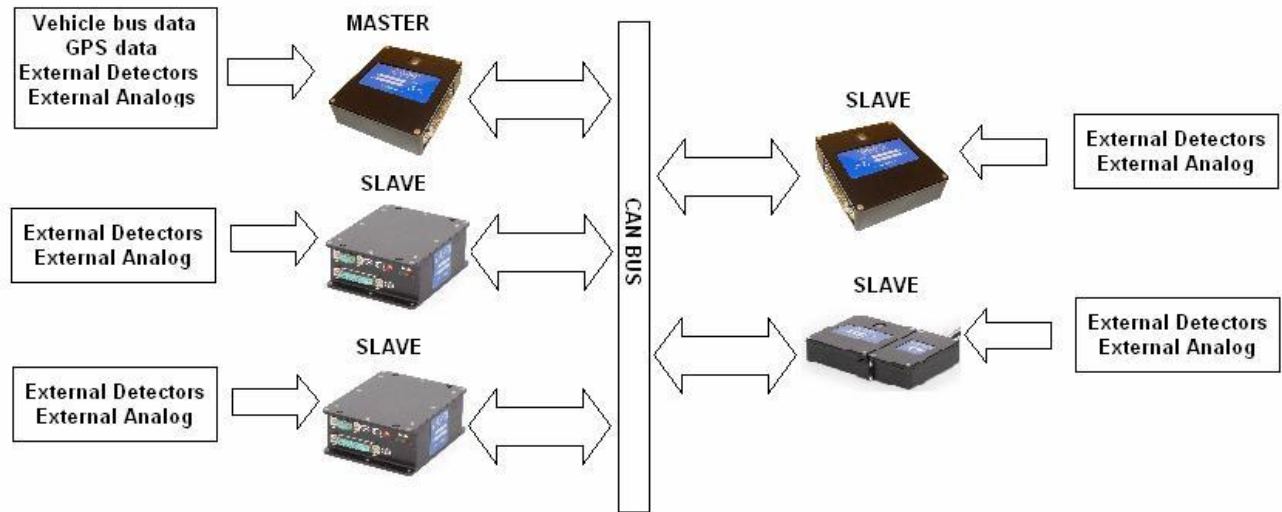
The improved interface allows you to create almost any math channel even faster than before:

- Integrals; e.g. calculate the Distance from your recorded Speed channel
- Derivative; e.g. calculate the Acceleration from the recorded Speed channel
- Use a defined function as another function parameter
- Define your own constants
- Other standard functions such as SIN, COS, TAN, LN, EXP, LOG, POW, IIF and more



5 ISAAC devices network

Expand your channel count by connecting several ISAAC Recorders through the CAN bus.



Connect to the Master Recorder to:

- Start, Stop or Reset all the slaves Recorders simultaneously.
- View the real-time data from all the slaves Recorders on the PC Real-time display or the Palm PDA real-time display.
- Record and maintain the data from all the slaves Recorders in a single location.

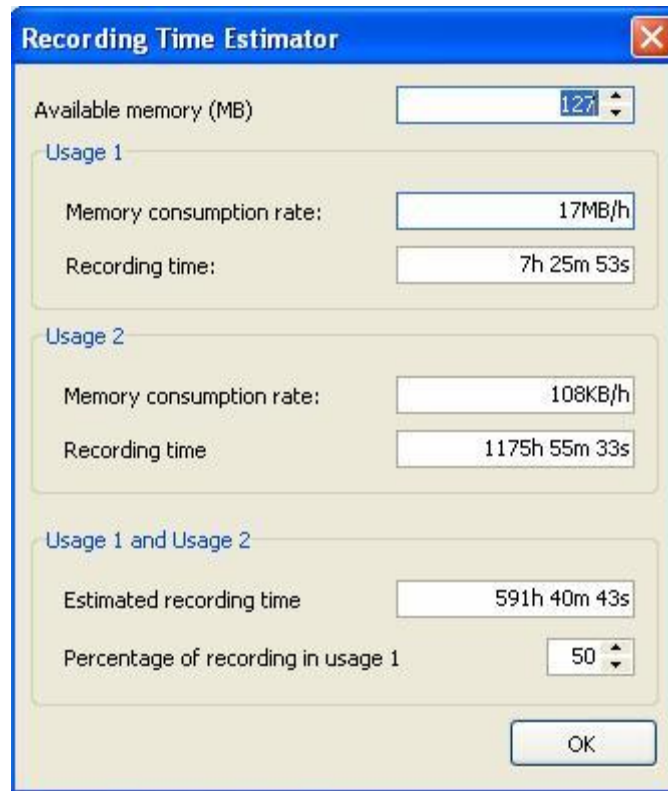
6 Detector channels pulse accumulation

Use the pulse accumulation to compute:

- The distance from a speed signal
- The number of Engine revolutions from a RPM signal
- The total fuel consumption from a Fuel flow signal
- The number of time a switch was engaged from a state signal

7 Recording time estimator

The recording time estimator evaluates the total recording time available for a given configuration.



The Recording Time Estimator dialog box is titled "Recording Time Estimator" and contains the following fields:

- Available memory (MB): 127
- Usage 1:
 - Memory consumption rate: 17MB/h
 - Recording time: 7h 25m 53s
- Usage 2:
 - Memory consumption rate: 108KB/h
 - Recording time: 1175h 55m 33s
- Usage 1 and Usage 2:
 - Estimated recording time: 591h 40m 43s
 - Percentage of recording in usage 1: 50

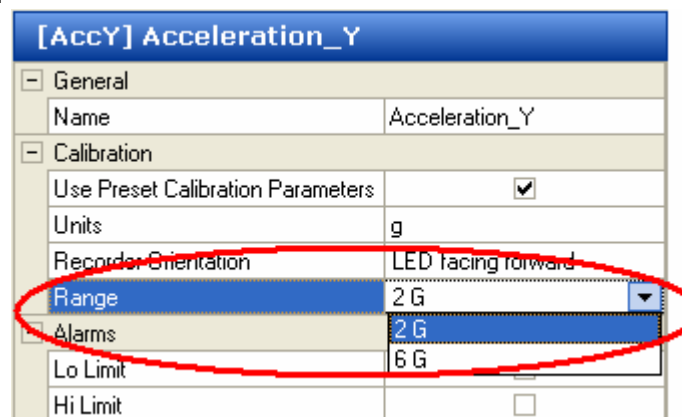
An OK button is located at the bottom right of the dialog.

8 Units database

The new expanded **Units Database** is now user configurable. Add your own engineering units with the corresponding conversion factors.

9 2G/6G internal accelerometer

Configure the internal accelerometer(s) contained in the BOXV80-STD or the BOXV80-SLD for $\pm 2G$ or $\pm 6G$ operation.



The configuration dialog for the internal accelerometer is titled "[AccY] Acceleration_Y" and is organized into sections:

- General**: Name: Acceleration_Y
- Calibration**:
 - Use Preset Calibration Parameters:
 - Units: g
 - Recorder Orientation: LED facing forward
 - Range: 2 G (highlighted with a red circle)
- Alarms**:
 - Lo Limit: 2 G (highlighted with a red circle)
 - Hi Limit: 6 G