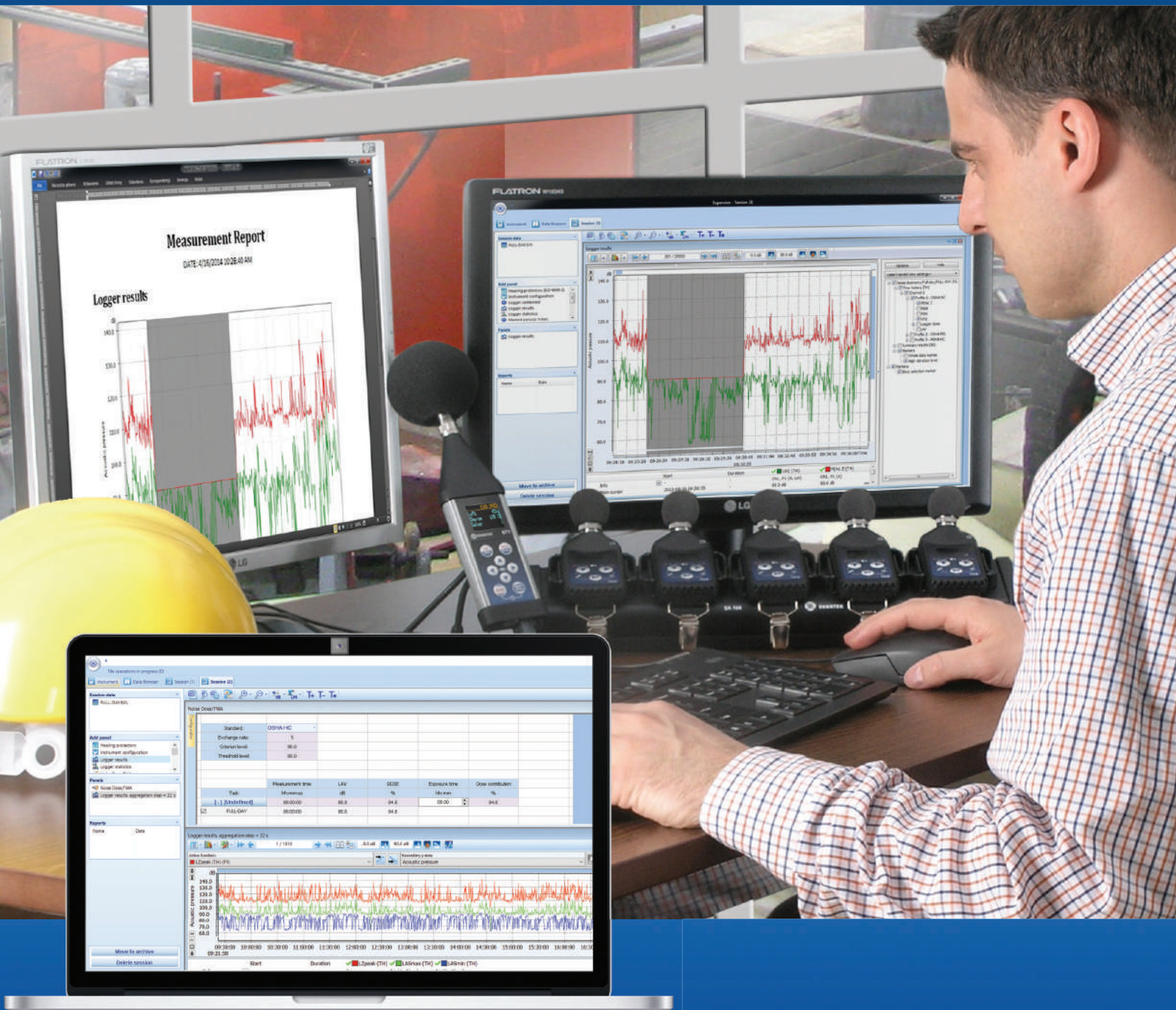


Supervisor Software



INSTRUMENTATION FOR SOUND & VIBRATION MEASUREMENTS

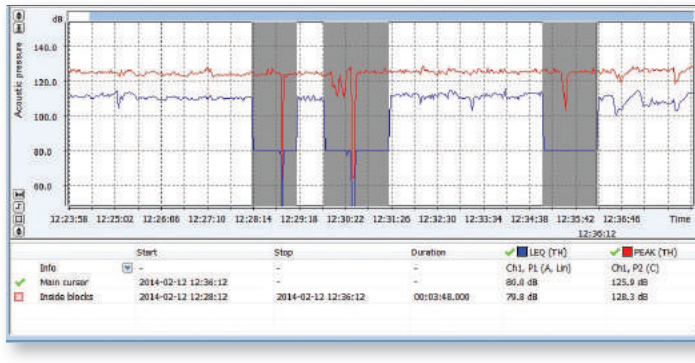
Supervisor Software Data Management & Reporting

Supervisor is a software package for health and safety specialists. The package supports all Svantek instruments for the health and safety market.

The Supervisor is designed to meet the needs of different users. In the case of simple applications that only require the analysis of the main results such as LAeq, LAFmax and Lcpeak, the program offers quick previews and reporting without the necessity of opening data files. More advanced applications are handled within sessions where the user can choose the type of analysis to be performed. Those

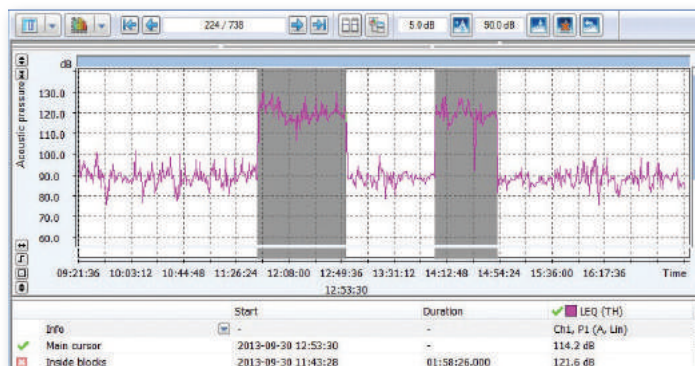
who draw up noise or vibration reports on a daily basis will appreciate the report templates, which once created can be applied to different sets of measurement files.

Each instrument that is connected to Supervisor is remembered together with information such as the uploaded settings, the firmware version, as well as the calibration validity date and instrument clock time. When data is downloaded, they are automatically categorised by measurement time and assigned to the instrument's serial number.



Simulation of changes of noise source emission

The Supervisor software gives tools to simulate hypothetical situations in which the noise differs from that which was measured. When selecting a data block it is possible to shift the data up or down for any given dB value. It is also possible to simulate a situation where noise is equal to a given dB level or completely removed from time history. The altered data is recalculated automatically and both the original and recalculated results are shown so as to answer the question "What if".



Parameters	Original value	New value
Threshold [dB]	80.0	80.8
Criterion level [dB]	90.0	90.8
Exchange rate	5	5
Projected time [H:mm]	08:00	08:00

Function name	Original value	Recalculated value
DOSE	80.5 %	80.5 %
DOSEth	80.5 %	80.5 %
ROISE	80.5 %	80.5 %
LAV	88.5 dB	88.5 dB
LEQ	90.7 dB	90.7 dB
SBL	120.3 dB	120.3 dB
TWA	88.5 dB	88.5 dB
PSL	90.7 dB	90.7 dB
LEPH	90.7 dB	90.7 dB
E	3.7 dB	3.7 dB
ESH	3.7 dB	3.7 dB

Mode	Protectors database	Manage database
File	Channel	
T1-1	Ch1	
Protector	Protector	
[-] SNR method:		
L _r [dB]	117.0	
SNR [dB]	40	
Current L _A [dB]	77	Good
Compare protectors		
[-] HML method:		
L _A [dB]	112.0	
L _C [dB]	117.0	
H [dB]	30	
M [dB]	33	
L [dB]	35	
Current L _A [dB]	78	Good
Compare protectors		

Hearing protection selection in accordance with ISO 4869-2

Workers should wear hearing protectors if the noise or sound level at the workplace exceeds 85 decibels. The selection of hearing protectors depends on a noise level in the working environment. Therefore the selection of suitable hearing protector should be based on noise measurement.

Each hearing protector has attenuation characteristics expressed in units of three methods:

SNR _____ Single Number Rating,

HML _____ High, Medium and Low frequency method, using A-weighted and C-weighted sound measurements in the calculation

OCTAVES _____ The most accurate method requiring measurement in 1/1 octave bands

The Supervisor supports all three methods allowing users to build up the hearing protectors data base. The calculation is done automatically with selection of data files containing noise results required by selected method.

Supervisor Software Data Management & Reporting

Hand-Arm Vibration Exposure Calculation in accordance with ISO 5349-2

ISO 5349-2 gives practical guidelines in accordance with ISO 5349-1 of how to take hand transmitted vibration measurements at the workplace. These kinds of measurements are possible with the SV 106 human vibration analyser or SV 103 hand-arm vibration dosimeter. The data downloaded into the Supervisor database are assigned either to a particular user or to a task while all calculations

are performed automatically. The measurements are recorded in m/s^2 and are directly comparable to the limits laid down by European Directive 2002/44/EC. It is also possible to convert these units into Points, which are widely used within the health & safety sector. All the information displayed within the panel window can be printed in the report.

Hand-Arm vibration exposure (ISO 5349-2)

Add user Add task

Zbychu
 Drill
 DRILL1.SVN
 DRILL2.SVN
 DRILL3.SVN

Show exposure:		levels							
User	Exposure duration	RMS (X)	RMS (Y)	RMS (Z)	AEQ	Partial exposure	Time to reach EAV	Time to reach ELV	
Zbychu	hh:mm	m/s^2	m/s^2	m/s^2	m/s^2	$m/s^2 A(8)$	$2.5 m/s^2 A(8)$	$5 m/s^2 A(8)$	
[-] Drill	00:00	5.389	10.012	5.489	12.618	0.364	01:00	04:02	
<input checked="" type="checkbox"/> File name:	DRILL1 (Ch1-3)	5.662	12.274	5.929	14.757	0.426	00:13	00:55	
<input checked="" type="checkbox"/> File name:	DRILL2 (Ch1-3)	5.630	9.386	5.236	12.134	0.350	00:20	01:21	
<input checked="" type="checkbox"/> File name:	DRILL3 (Ch1-3)	4.831	7.852	5.272	10.617	0.307	00:26	01:46	
Total duration:	00:00								
						Daily exposure			
						User	m/s^2		
						Zbychu	0.364		

Whole-Body Vibration Exposure Calculation in accordance with ISO 2631-1

The ISO 2631-1 standard defines the general methodology to assess whole-body vibration exposure. These measurements can be performed with the SV 106 human vibration analyser or the SV 100A whole-body vibration dosimeter. The measurements downloaded into the Supervisor database are assigned either to a particular user or to a task while all calculations are performed automatically. The measurements are recorded in m/s^2 and

are directly comparable to the limits laid down by European Directive 2002/44/EC. It is also possible to convert these units into Points, which are widely used within the health & safety sector. By clicking on Mode, you can switch to calculations based on VDV which is often necessary when the vibration is characterized as impulsive.

Whole-Body vibration exposure (ISO 2631-1)

Add user Add task

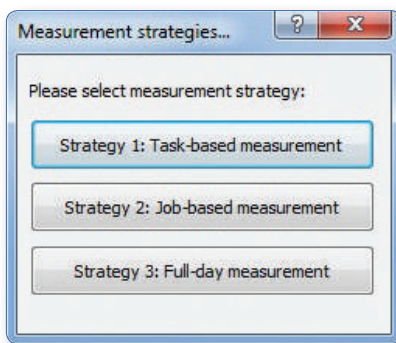
John
 Car

Mode:		A(8) calculator								
Show exposure:		levels								
User	Exposure duration	RMS (X)	RMS (Y)	RMS (Z)	Partial exposure (X)	Partial exposure (Y)	Partial exposure (Z)	Time to reach EAV	Time to reach ELV	
John	hh:mm	m/s^2	m/s^2	m/s^2	$m/s^2 A(8)$	$m/s^2 A(8)$	$m/s^2 A(8)$	$0.50 m/s^2 A(8)$	$1.15 m/s^2 A(8)$	
[+] Car	04:00	0.079	0.065	0.237	0.078	0.064	0.167	>24:00	>24:00	
Total duration:	04:00							Total exposure (X)	Total exposure (Y)	Total exposure (Z)
						$m/s^2 A(8)$	$m/s^2 A(8)$	$m/s^2 A(8)$		
						0.078	0.064	0.167		
						Daily exposure				
						User	m/s^2			
						John	0.167			

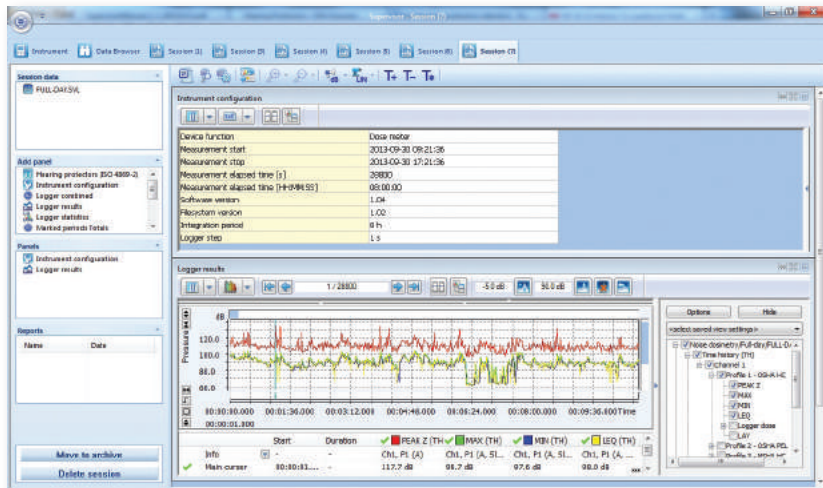
Supervisor Software Data Management & Reporting

Noise exposure recalculations in accordance with ISO 9612

User	T _m	T _{m1}	T _m	L _{p,LeqTm}	L _{p,eq,h}	ΔL _{p,LeqTm}
John	Duration of task m	Duration of samples ...	Average duration of ...	LEQ for task m	Noise exposure level ...	LEQ values difference
Task	hh:mm	hh:mm;hh:mm;...	hh:mm	dB	dB	dB
[-] Drill	08:00		08:00	95.5	95.5	15.4*
File name:	T1-1: 2013-09-27 15:13:32			86.6		
File name:	T1-1: 2013-09-27 15:23:32			102.1		
File name:	T1-1: 2013-09-27 15:33:32			96.1		
File name:	T1-1: 2013-09-27 15:43:32			89.3		
File name:	T1-1: 2013-09-27 15:53:32			88.7		
	T _e		08:00			*exceeds 3dB
	Effective duration of ...					
					L _{eq,h}	U(L _{eq,h})
					Daily noise exposure ...	Expanded uncertainty
	User			dB	dB	dB
	John			95.5	5.6	



The Supervisor software provides complete tool for determination of occupational noise exposure from noise level measurements. The Supervisor provides automatic calculation of all required measurement results and uncertainties in accordance to three measurement strategies described in ISO 9612: task-based, job-based and full-day.



Reporting: What You See is What You Get!

Supervisor creates reports* in a very fast and easy way. The user selects a file and opens it by double click. The measurements are automatically grouped into context panels which can be opened and closed with a single click. The panels can be arranged with the drag & drop. Then you only need to click on the MS Word™ icon to print a report. The report layout can be saved at any time as a template and used for other files.

*MS Word™ required

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