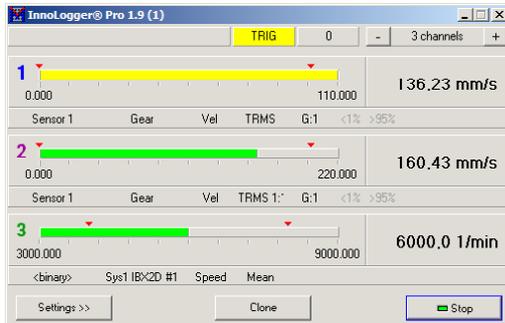
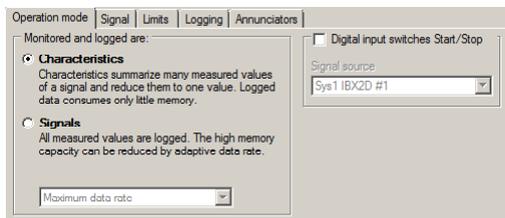


# InnoLogger® 1.9

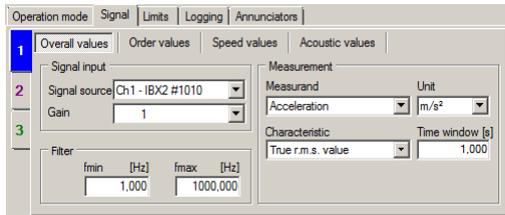
## Monitoring and Logging Instrument



Simultaneous monitoring of up to 4 characteristics



2 operation modes: Log characteristics or signals



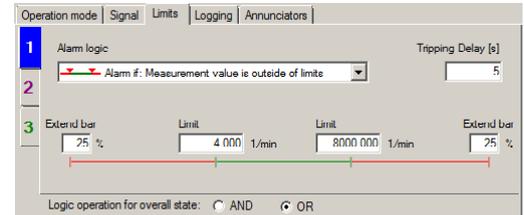
Numerous settings for signal conditioning

### Application

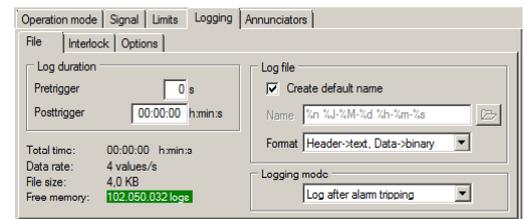
For the monitoring of vibration parameters and their logging for later analysis with other software systems, the InnoLoggers are available.

Vibrations are caused by rotating parts or impulse-like loads, e.g. by a vibratory pile driver in the construction-field. In numerous standards, significant characteristics and limits are defined for a reliable evaluation of vibrations.

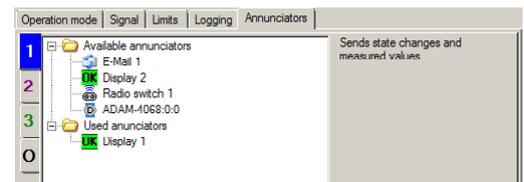
The InnoLoggers measure these characteristics and also monitor their level with regard to the exceedance of limits. Alarm states are indicated and allow a fast good-bad-recognition by means of colored bars. In addition, the alarm can initiate the logging of measured values. Additionally, events can be annunciated, e.g. by e-mail or signaling devices.



Alarm and alarm delay settings



Logging of characteristics or signals



Annunciation of measured data and events

### Properties

- Free filter adjustment from 0.1 .. 40000 Hz
- SI and imperial units for each measurand
- 25 characteristics
- 2 alarms with alarm delay

The InnoLoggers are able to log and monitor signals or characteristics. The logged data can be used for further analysis with external programs.

Automated operation is supported by an external trigger: Thus, the start of the InnoLoggers' measurement can be controlled externally. Additionally, data logging can be prevented acc. to adjustable rules, e.g. if you already acquired enough data.

In combination with event annunciators, measured values and alarm states can be presented in a colored and enlarged extra display or be sent via e-mail. Alarm states can control radio switches and digital outputs like e.g. relays and thus are able to switch electrical alarm lamps or acoustic signaling devices.

The e-mail messenger additionally allows to send logged data automated.



# Technical Data

	InnoLogger Pro	InnoLogger
<b>Signal Processing</b>		
Filter	Freely adjustable 0.1..40 000 Hz **	
Time Window	Freely adjustable 0.1..10 s	
Measurands	Alternating measurands: Vibration acceleration, velocity, displacement; force, pressure, sound pressure, voltage, user-defined measurands	
	Rotation speed, phase angle, noise weighted	
Integrated Measurands	Acceleration → Velocity and displacement	
Units	m/s <sup>2</sup> , mm/s <sup>2</sup> , μm/s <sup>2</sup> , nm/s <sup>2</sup> , pm/s <sup>2</sup> , g, mg, μg, km/s <sup>2</sup> , kg, dB   m/s, mm/s, μm/s, nm/s, pm/s, in/s, mil/s, μin/s, dB   m, mm, μm, nm, pm, ft, in, mil, μin, dB   kN, N, mN, μN, nN, lb, oz   bar, mbar, MPa, kPa, hPa, Pa, mPa, μPa, nPa, psi   V, mV, μV, nV, pV   A, mA, μA, nA, pA	
	1/min, 1/s, Hz, 1/h   Hz, kHz   %   °	
Characteristics	<b>Overall values:</b> Instantaneous value, peak value absolute / positive / negative, peak-to-peak value, true r.m.s. value, main frequency, harmonic distortion, crest factor <b>Order values:</b> Peak value, r.m.s. value, phase angle <b>Speed values:</b> Mean value, instantaneous value <b>Acoustic values:</b> Noise level with A- and C-weighted frequency (peak / fast / slow time weighted, equivalent continuous noise); noise level unweighted (fast / slow time weighted); daily noise exposure level	<b>Overall values:</b> Instantaneous value, peak value absolute / positive / negative, peak-to-peak value, true r.m.s. value
<b>Graphical Presentation</b>		
Bar Graph	10 graduations, marks for min./max. limit, color change to green/yellow/red acc. to alarm state	
Numeric Display	5 digits; 0.001 .. 99999	
Number of Bar Graphs	1 .. 4 per window	
Refresh	1.. 4 times per second *	
Status Indicators	Sensor, measuring channel, measurand, characteristic, gain, underload, overload, log counter	
<b>Alarm</b>		
Limits	2 (1 for exceedance, 1 for under-run), -9999.999 .. 9999.999	
Alarm Delay / Combination	0 .. 3600 sec / AND, OR	
<b>Logging of Signals or Characteristics</b>		
Pretrigger / Posttrigger	0 .. 30 sec / 0 sec .. 24 h	
Logging Speed	Characteristics: 1 .. 4 per second*, signals: optionally 96000*** values / s or reduced adaptively	
Data Format	1. header: text, data: binary / 2. header: text, data: text / 3. 2 files, header: text, data: binary	
File Name Generation	Automated or manually, optionally with automatically filled placeholders	
Logging Mode	"Log always" or "Log after alarm tripping"	
Prevent Logging	After logging of x files, after recent logging, in case of little memory capacity	
<b>Event Annunciators</b>		
Display	Single channel: currently measured value, current alarm state   Instrument: Current alarm state	
Radio Switch	Single channel: current alarm state   Instrument: Current alarm state	
Digital Output	Single channel: current alarm state   Instrument: Current alarm state	
E-Mail	Single channel: currently measured value, current alarm state Instrument: logged data, current alarm state	
<b>Miscellaneous</b>		
General Functions	Measurement data is held after switching off, module is cloneable	

\* Centrally managed in the InnoMaster

\*\* InnoBeamer LX2: 0.1 .. 3200 Hz

\*\*\* InnoBeamer LX2: 8000 values / s

Changes without prior notice

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