PC Based Oscilloscopes and Recorders

VibroMetra
VM-PLOT
## VM-SCOPE
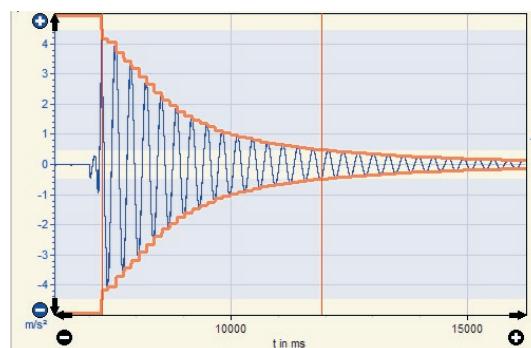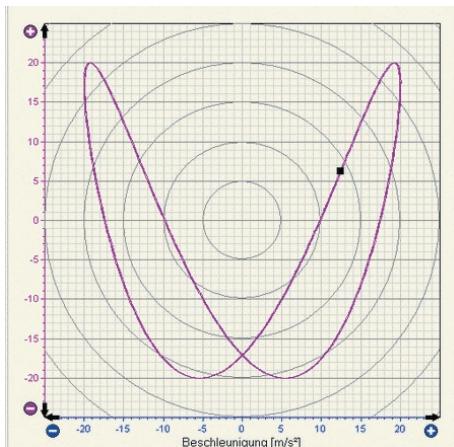
VM-SCOPE scilloscope

- PC based measuring system using the IEPE / USB interfaces M302/ M312 and IEPE compatible accelerometers

- **VM-SCOPE** displays the signal shape of short vibration evets, like shock, impact signals or drop tests

- **VM-PLOT** recordings RMS or peak values of slowly changing vibration signals

- **VM-PLOT**:
  - Long-term recording and display of vibration level up to 24 hours
  - Rcorded data can be viewed later in full time resolution by means of zoom and scroll functions
  - RMS, positive/negative peak, peak-to-peak, instantaneous value as overall values and with VM-PLOT+ order values
  - Measurement of vibration acceleration and in VM-PLOT+ version also velocity and displacement and acoustic values
  - Synchronous display of up to four signals per window
  - Two time axes: clock time and elapsed time
  - High pass and low pass filters
  - Clone function allows synchronous recording in up to four windows, for instance with different filter or integrator settings
  - Export function as bitmap, EMF or text file
  - Offline analysis of stored measuring data

- **VM-SCOPE**:
  - Displays real-time vibration signals in the time domain
  - Large memory for long pre and post trigger time
  - Measurement of vibration acceleration and in VM-SCOPE+ version also velocity and displacement
  - VM-SCOPE+ measures Head Injury Criterion (HIC), decay time and phase position (orbit)
  - Synchronous display of up to four signals per window
  - Two measuring cusrors
  - High pass and low pass filters
  - Clone function allows synchronous display in up to four windows, for instance with different trigger settings
  - Export function as bitmap, EMF or text file
  - Offline analysis of stored measuring data

- Free update service from our website www.MMF.de

Notice: All software instruments are bilingual English / German
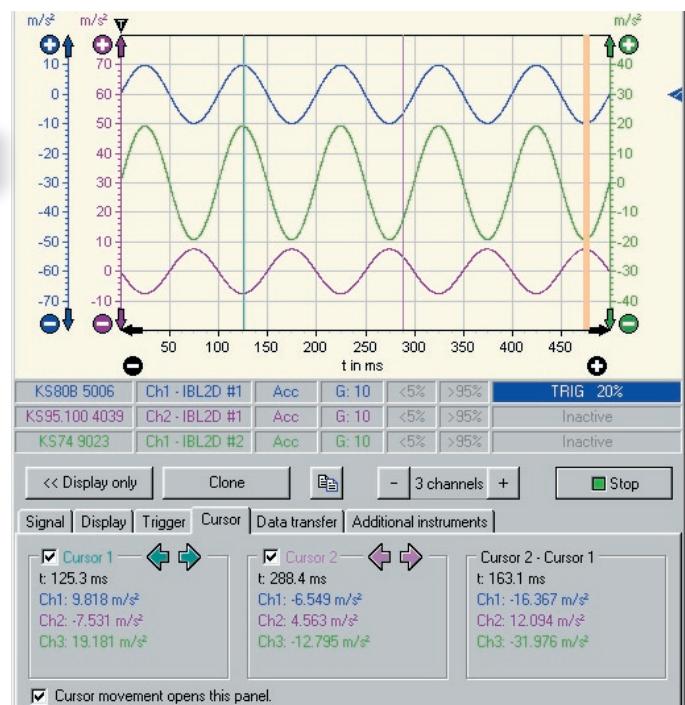
Strip Chart Recorder VM-PLOT
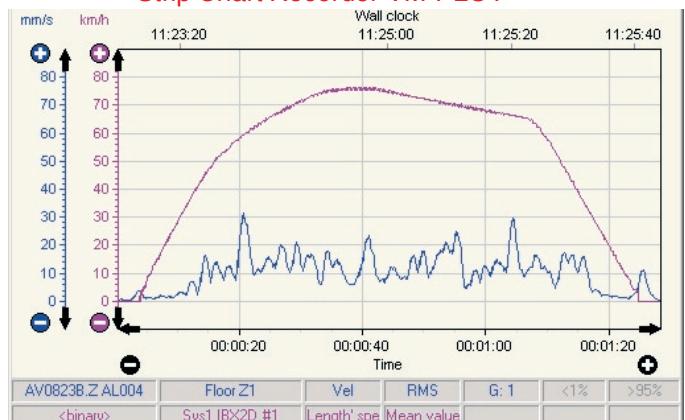
AGT Absolute Gauge Technologies™

Technical Data

	VM-SCOPE+	VM-SCOPE	VM-SCOPE SE*	VM-PLOT+	VM-PLOT	VM-PLOT SE*
Function	Oszilloskop Oszilloscope			Y/t-Pegelschreiber Y/t Strip chart recorder		
AC voltage	x	x	x	x	x	x
Vibration acceleration	x	x	x	x	x	x
Vibration velocity	x	–	–	x	–	–
Vibration displacement	x	–	–	x	–	–
Overall values	x — Instantaneous value			Instantaneous value, peak value (absolute / positive / negative), peak-peak, true RMS		
				main frequency, harmonic distortion, crest factor	-	
Order values	-			Peak value, RMS, phase angle	-	
Akustikkennwerte Acoustic values	-			Sound level A and C weighted, unweighted, daily noise exposure	-	
Frequenzbereich Frequency range	0.3 - 2000 Hz (M302); 0.1 - 40 000 Hz (M312); free adjustable digital filter with 4 / 16 / 64 poles		0.1 - 40 000 Hz (only with M312)	0.3 - 2000 Hz (M302); 0.1 - 40 000 Hz (M312); free adjustable digital filter with 4 / 16 / 64 poles		0.1 - 40 000 Hz (only with M312)
Recording rate	-			1 / 8 / 16 measurements per second		
Time window for RMS & peak	-			0,1 - 10 s, frei einstellbar 0.1 - 10 s, free adjustable		
Channels	1 - 4			1 - 4		
Trigger Modes	single, free running, repeating, pos. / neg. slope			-		
Trigger Source	Analog signal or digital input			-		
Time Stamps	-			Via digital input		
Measuring Cursors	2 Cusrors with time and magnitude display			2 Cusrors with time and magnitude display		
Pre/Post Trigger	0 .. 1000 ms / 0,001 .. 1000 s	0 .. 1000 ms / 0,001 .. 100 s				
Time axis	1 ms .. 101 s; 0.1 ms resolution	1 ms .. 11 s; 0.1 ms resolution		6 s .. 24 h		
Statistics functions	Min., max., mean			-		
Evaluation functions	Decay time, HIC, phase position (orbit)			-		
Refresh rate	1 to 16 times per second			1 to 4 times per second		
Data export	manually or after trigger as BMP, PNG, EMF or text			manually or periodically (>1 s) as BMP, PNG, EMF or		
Externe Melder External messengers	By Email (global VibroMetra option VM-MAIL)			Email or large color display (options VM-MAIL / VM-LARGE)		

* VM-SCOPE SE is a component of the combined license VM-SE FMS and VM-PLOT of VM-SE FMP

Notice: A free trial version of VibroMetra can be downloaded from our website www.MMF.de.

Metra Meß- und Frequenztechnik in Radebeul e.K.

Specifications subject to change without prior notice.

AGT Absolute Gauge Technologies™

Presented by: Absolute Gauge Technologies
sales@absolutegauge.com; www.absolutegauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008