

Profound Vibration Monitoring



VIBRA
VIBRA-sbr
VIBRA+

Profound VIBRA-series: detailed features overview		VIBRA	VIBRA-sbr	VIBRA+	
Trace option	Velocity versus time curve	•	•	•	
AD-converter	24 bits delta sigma data conversion	•	•	•	
Resolution display	0.01 mm/s	•	•	•	
Resolution AD-converter	0.001 mm/s	•	•	•	
DIN	Accuracy	•	•	•	
	Frequency characteristic	•	•	•	
	Dominant frequency determination	Zero crossing method	•	•	•
		FFT (Hanning window)			•
Data processing	DIN 4150-2			•	
	DIN 4150-3	•		•	
SBR	Accuracy		•	•	
	Frequency characteristic		•	•	
	Dominant frequency determination	Method I		•	•
		Method II		•	•
Data processing	SBR Part A SBR Part B		•	•	
Sample frequency	1024 Hz	•	•	•	
Velocity data save level	Adjustable between 0.01-100 mm/s (or always)	•	•	•	
Alarm level	Adjustable between 0.01-100 mm/s (or none)	•	•	•	
Clock stability	≈ 5 minutes/year at 25°C	•	•	•	
Smart alarm level	Frequency dependent maximum velocity, complying with the SBR or DIN levels			•	
Optical signal device	Flashing alarm beacon (via USB cable)	•	•	•	
External power	5 Volt supplied to the VIBRA USB connector	•	•	•	
GSM/GPRS/internet mail function	Wireless data transmission			•	
Maximum displacement / u /	$u_x u_y u_z$ per time interval			•	
VIBRA PC Trace Recorder	Continuous time/velocity trace recording			•	
VIBRA Geophone	Digital ID	•	•	•	
	Geophone detection	•	•	•	
	Digital correction of the sensitivity	•	•	•	
	Digital correction of the f_{res} and Q		•	•	
	Automatic inclination check			•	
	Automatic calibration check			•	
PC software	Windows 2000/XP	•	•	•	
	Processing according to SBR-guidelines		•	•	
	Processing according to DIN-guidelines	•		•	
	Extensive graphical data presentation including precise date time axis. Various data exporting options, e.g. as ASCII-(*.csv) file	•	•	•	



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