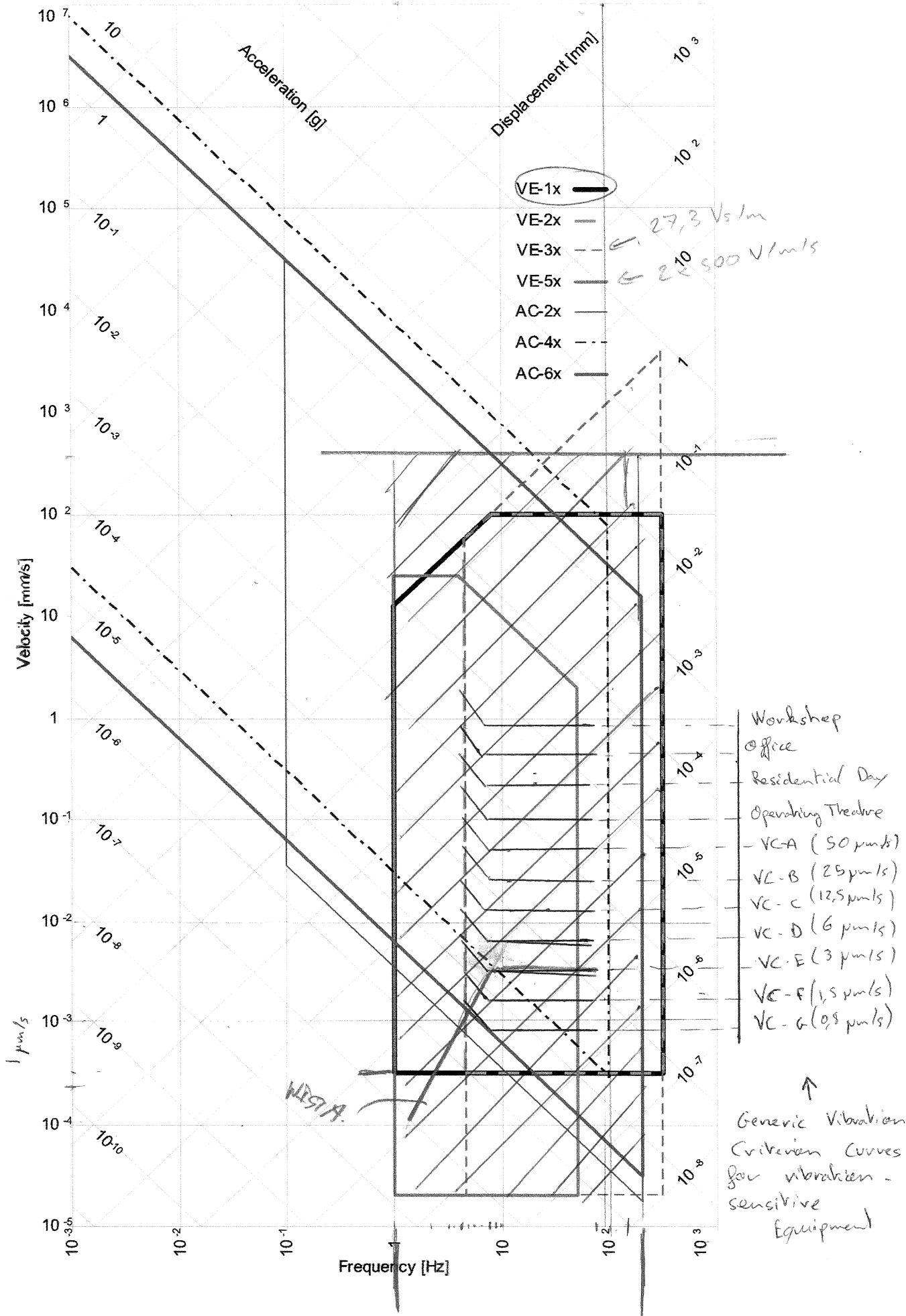


compte de  
de GEOSIG

capteur TRI AXE SENUS: gamme: 1- 315 Hz.  
de V.C.I? à ++ + Workshop.





Measuring Systems

- Apollo
- Soundbook
- Expander
- Hurricane
- HARMONIE
- MSX16

Sound Level Meters

- Boogie
- Tango

Monitoring Systems

- NoiseLOG
- Swing

Software

- SAMURAI
- siNoise
- NWWin
- ME'scope VES
- SMT (MATLAB)

Solutions

- AcustiCam
- AcustiTube
- Vehicle Pass-By

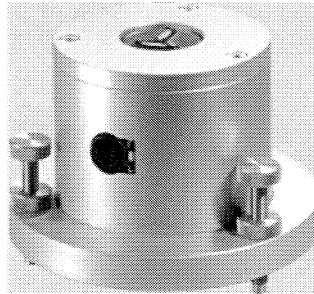
Sensors

- Microphones
- Accelerometers
- Seismometer
- Hand/Arm
- Special Sensors

Accessories

Services

SINUS 3D Seismometer



The SINUS 3D Seismometer is ideal for the measurement of ground-propagated vibration, in particular building vibration according to DIN 45669 and DIN 4150. It offers unique advantages compared with seismometers from other manufacturers:

- Officially calibratable by German DKG
- Power supply via ICP - no cable clutter, no additional mains adapter
- Frequency range from 0.5 Hz (!) up to 80 or 315 Hz
- Excellently suited for field use with the SAMURAI software (Option: Building Vibration) on Soundbook or NoiseLOG mobil

Technical Specifications

Type	triaxial velocity sensor with linearized frequency response
Principle	active, electronically equalized seismometer
Sensitivity	27.7 V/ms <sup>-1</sup>
Case-to-coil motion	4 mm p-p
Frequency range	0.5 ... 80 Hz (Order No. 902220.3) or 0.5 ... 315 Hz (Order No. 902219.7) (linear ±10% frequency response)
Dynamic range	typically 123 dB
Lower detection limit	typically 350 nm/s (according to DIN 45669)
Linearity / Phase	according to DIN 45669 (Class 1)
Cross axis sensitivity	according to DIN 45669 (< 5%)
Power supply	ICP 2 ... 20 mA
Output voltage	±10 V
Temperature range	-30°C ... +60°C
Housing	Aluminium
Protection	IP 65 (splash-proof)
Dimensions	150 mm (contact points diameter 130 mm) x 90 mm
Weight	2.0 kg
Connection	3 x ICP via LEMO FFP.2S.306
Cables	Seismometer cable splitter (Order No. 902241.2, included) (X: green, Y: blue, Z: red) Seismometer extension cable 25 m on drum (Order No. 902240.4)

Frequency Response

$$L_{min} = 20 \log \left( \frac{V}{V_{ref}} \right) = 20 \log \left( \frac{350 \cdot 10^{-9}}{7 \cdot 10^{-9}} \right) = 51 \text{ dB}$$

$$dB_{max} = 51 + 123 = 173 \text{ dB}$$

$$V_{max} = 10^{\left( \frac{173}{20} \right)} \times 10^{-9} = 0,44 \text{ m} \cdot \text{s}^{-1}$$

CAPTEUR TRI AXE SINUS. gamme 7-375 Hz.  
 de VC-G--- à Work stop+++