

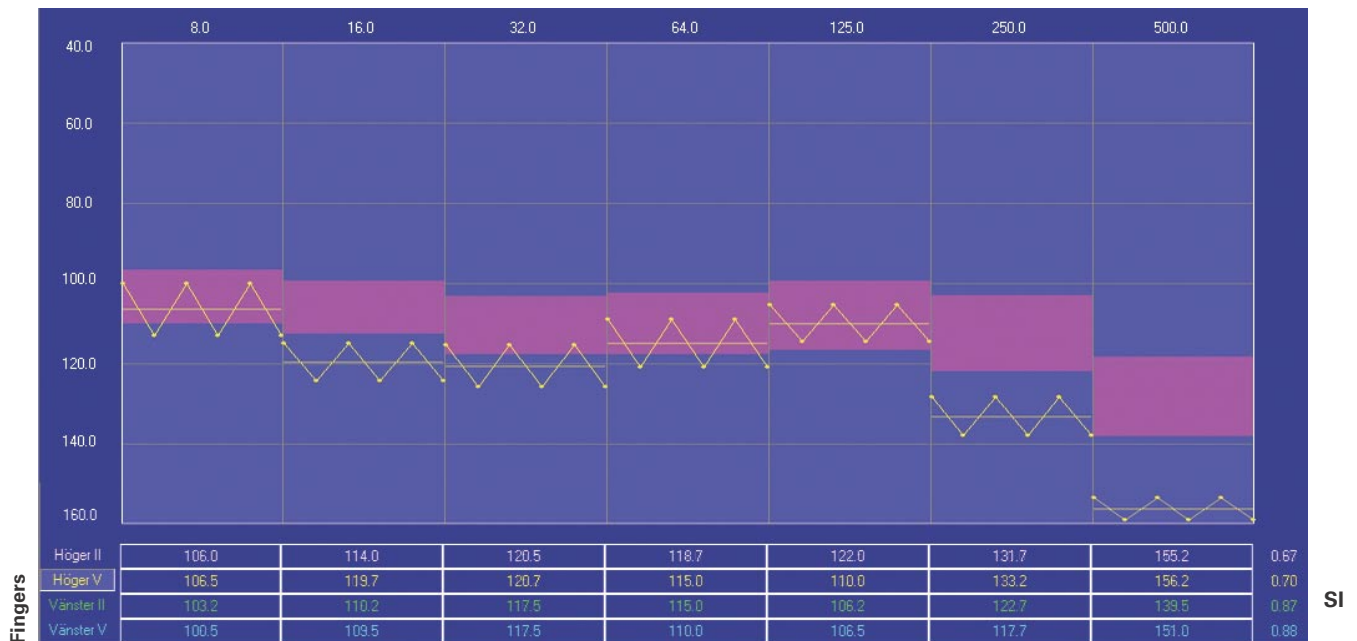
Vibrogram & Sensibility Index (SI)

The VibroSense Meter investigates the vibration perception (VPT, Vibrotactile Perception Thresholds) of the hand at multiple frequencies between 8 to 500 Hz. The concept is that the various mechanoreceptors of the skin respond to various frequencies, and that assessment of perception for vibration within one frequency only, is not sufficient to get a total picture of the vibration sense.

With the investigation a vibrogram is produced, normally showing a characteristic shape. Impaired vibration sense results in characteristic modifications in the shape of the curve. For each investigation an age-matched normal vibrogram with standard deviations appear on the screen. Thus, the patients recorded vibrogram can easily be compared with a normal vibrogram, i.e. against normative age-matched thresholds.



Normal condition , SI > 0.8



Pathologic, SI < 0.8

← Vibrotactile Perception Thresholds (VPT) - one for each frequency and finger →

Calculation of SI

VPT's at seven frequencies are analysed, i.e. at 8, 16, 32, 64, 125, 250 and 500 Hz. The integrated surface under the patient vibrogram curve is then related to the corresponding surface under the normal vibrogram (pink area) at a specific age. The quota is called Sensibility Index (SI) and a SI below 0.8 is regarded pathologic.