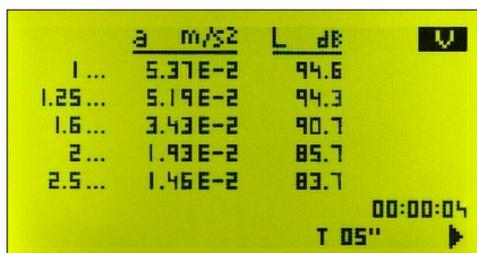
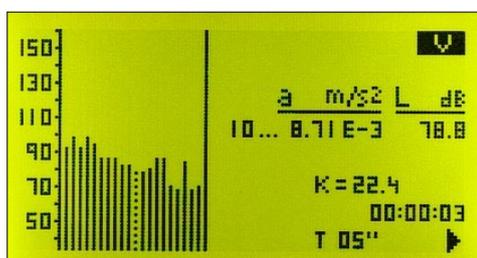


Module for vibration measurements



Numeric screen acceleration values in m/s² and dB (1 Hz—80 Hz)

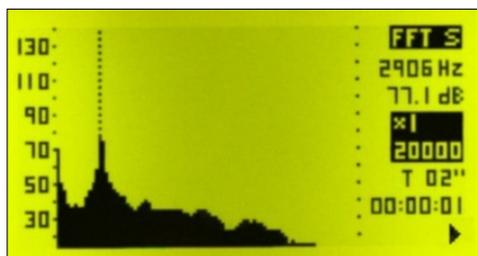


Graphic screen in 1/3 octave bands (1 Hz - 80 Hz) + k evaluation



Overall values of acceleration evaluation parameters ISO 2631-2:2003

FFT Narrow Band Frequency Analysis (0 Hz—1 kHz)



The characteristics, technical specifications and accessories may vary without prior notice

The module for vibration measurements of the **SC310** sound level meter adds 2 measurement modes; human exposure to whole-body vibration in buildings mode and FFT (Fast Fourier Transform) narrow band frequency analysis for vibration.

The “Human exposure to whole-body vibration in buildings” mode of the **SC310** includes a new mode for measuring structural vibration to which human beings are exposed in buildings. This new mode VIBRATION has been designed according to ISO 2631-2:2003 and along with the preamplifier PA001 and the accelerometer converts the **SC310** into a human vibration-measuring instrument according to ISO 8041. (The module for vibration measurements does not include accelerometer).

This new mode consists of 3 screens. The first one shows a 1/3 octave band real time spectrum analysis from 1 Hz to 80 Hz, showing the acceleration information in linear [m/s²] and logarithmic numerical values [dB referred to 10⁻⁶ m/s²]. The Second one shows this spectral information in graphic format and also gives the evaluation of the multiplying factor K according to the old ISO 2631-2:1989. The third screen shows linear and logarithmic overall values of acceleration evaluation parameters such as a_{Wm}, peak, crest factor, MTVV (Maximum Transient Vibration Value) and VDV (Vibration Dose Value). All these parameters with W_m frequency weighting (ISO 2631-2:2003).

The FFT Narrow Band Frequency Analysis for Vibration mode of the **SC310** sound level meter carries out a frequency analysis with constant bandwidth filters covering the frequency range from 0 Hz to 1 kHz in real time and in all dynamic measurement range (no scale settings). The FFT analysis has 430 effective lines with a resolution of 2.5 Hz.

The vibration module of the **SC310** is an optional module and it can be added to new instruments. For old ones, please consult.

