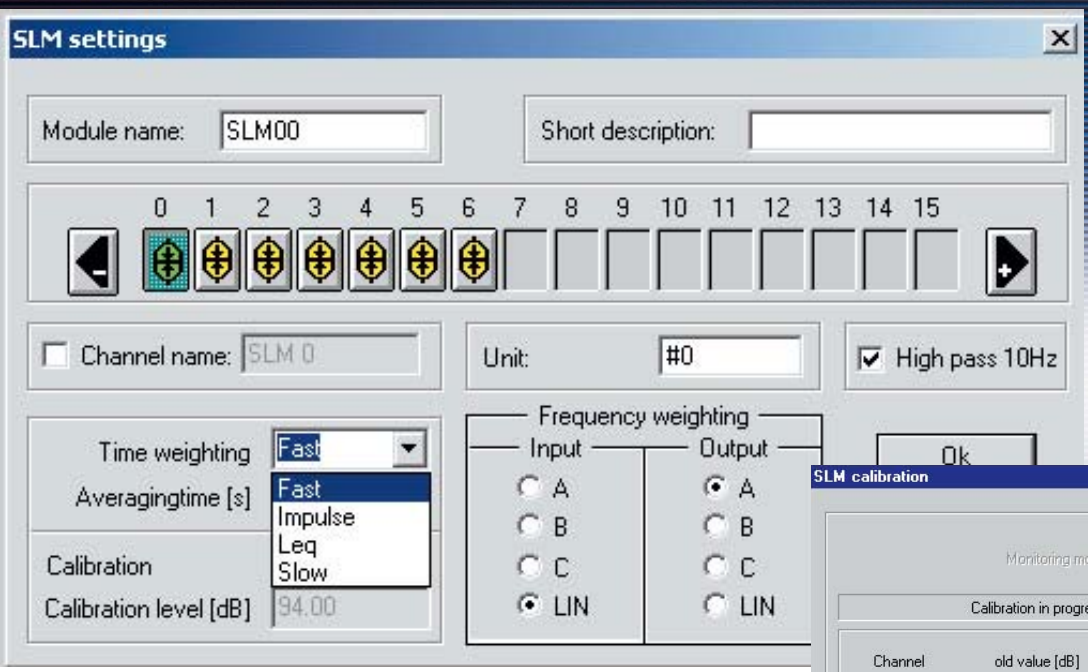
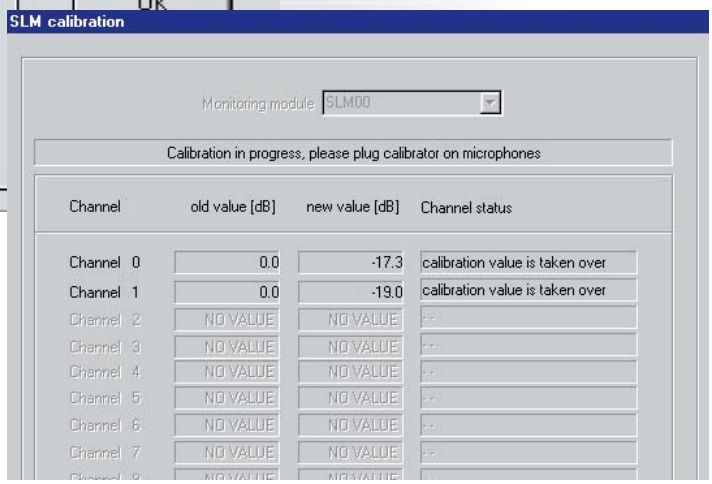
TEAC Instruments

SLM

Sound Level Measurement Module





MobyDAQ 16PA in combination with MC-50 as a recommended hardware.

SOUND LEVEL MEASUREMENT MODUL

The sound level measurement module has the following features:

- Time weighting: fast, slow, impulse, leq following DIN IEC 651 and DIN IEC 804.
- Easy microphone calibration with a pistonphone; in calibration mode, DasyLAB 6 detects the channel/microphone to calibrate and calculates the correct values.
- The correction values are stored with the worksheet.
- The module has 16 inputs and 16 outputs for the weighted and dB scaled sound levels.
- We recommend a 16 bit AD-converter with microphone power supply.
- A hardware dB A weighting is nice to have, but not necessary.
- Simultaneous Sample and Hold is absolute necessary for the sound pressure measurement.

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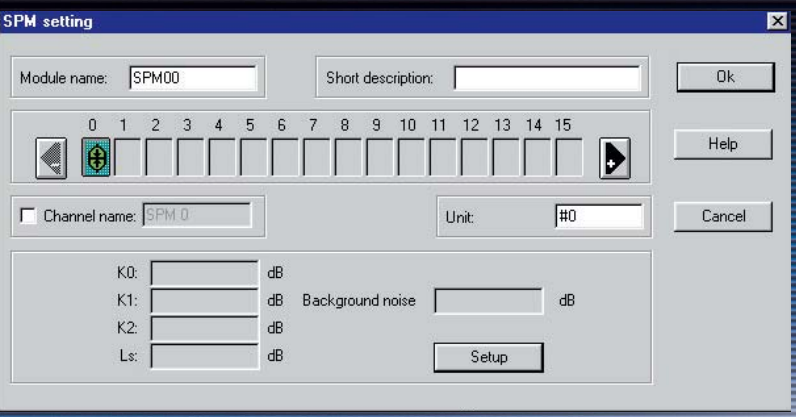
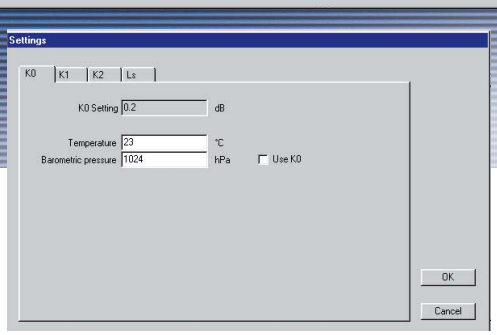
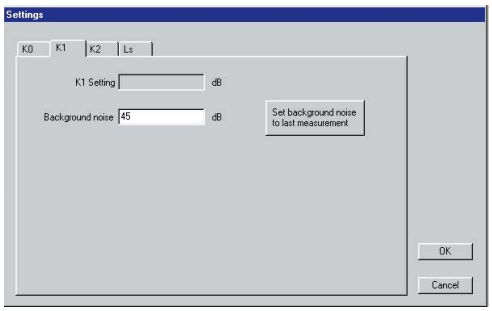
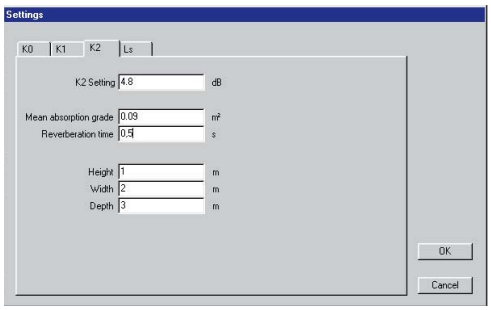


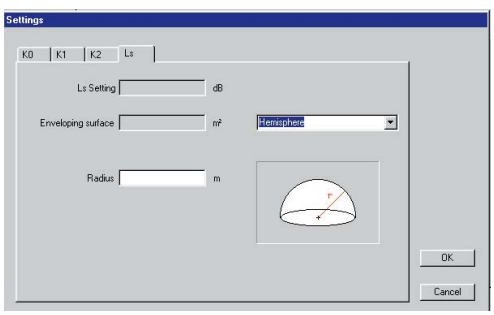
SPM

Sound Power Measurement Module









SOUND POWER MEASUREMENT MODULE

The sound power measurement module can calculate the sound power for a maximum of 16 input channels (from the sound level measurement module) 1 output channel, switchable to:

- Measurement surface sound power.
- Sound power level (SPL) of all active channels.

The module properties allow you to set the four corrective values in dB or use the "wizards" to determin them:

K0: Correction value for air pressure and temperature. Direct input of the dB value or pressure and temperature. (Only necessary for class 1 measurements according to DIN 45 635.)

K1: Correction value for extraneous noise correction (background noise, signal-to-noise-ratio). Direct input of the dB value or taken from last measurement.

K2: Correction value for environment feedback (reflections). Direct input of the dB value or input of the room's metrics:
– volume
– reverberation time ...

Ls: Correction value for for the enveloping surface. Direct input of the dB value or input of the surface metrics (guided with graphics). Like DIN (2a, 2c, b)
– Spherical, hemisphere, quarter globe
– Cuboids (detached, at a wall, at a wall and ceiling)

The module works according the following standards: DIN 45 635, DIN EN 23 741, ISO 3741, DIN EN 23 742, ISO 3742, DIN EN 23 744, EN ISO 3744, DIN EN 21 680, ISO 6395

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