INTELLIGENT MEASURING EQUIPMENT



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M settings			×	SLM
Module name: SLM00	Short descripti	ion:		Sound Level Measurement Module
	5 6 7 8 9 10) 11 12 13 14 15		
Channel name: SLM 0	Unit: #0	0 🔽 High	n pass 10Hz	
Time weighting Fast Averagingtime [s] Fast	Frequency wei		ok 1	
Calibration Slow	C C C C C C C C LIN		Monitoring module SI	M00
Calibration level [dB] 94.00		Channel		value [dB] Channel status
		Channel 0	0.0	-17.3 calibration value is taken over

.....



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

SOUND LEVEL MEASUREMENT MODUL

0.0

Channel 1

The sound level measurement module has the following features:

-19.0

calibration value is taken over

- 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 setting X Module name: SPM00 Short description: Ok 8 9 10 11 12 13 14 15 0 1 2 3 4 5 6 7 Help 0 Channel name: SPM C Unit #0 Cancel KO: dB K1: dB Background noise dB K2: dB dB Ls: Setup



Sound Power Measurement Module

K1 K2	L:			1
K0 Setting	0.2	dB		
Temperature		°C hPa	T Use K0	
Barometric pressure	1024	hPa	J Use KU	
				ОК
				Cancel

Kſ

) K1 K2 Ls K1 Setting	dB		1
Background noise 45	dB	Set background noise to last measurement	

10 K1 K2 L8		
K2 Setting 4.8	dB	
Mean absorption grade 0.09	m²	
Reverberation time 0.5	s	
Height 1	m	
Width 2	m	
Depth 3	m	
		OK

ко к1 к2 Ls				
Ls Setting	dB			
Enveloping surface	m²	Hemisphere	•	
Radius	m			
			_	OK.
				Cancel

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