

## Contact Details

NTi Audio AG  
Im alten Riet 102, 9494 Schaan, Liechtenstein, Europe  
Tel +423 - 239 6060, Fax +423 - 239 6089  
info@nti-audio.com, www.nti-audio.com

## Content

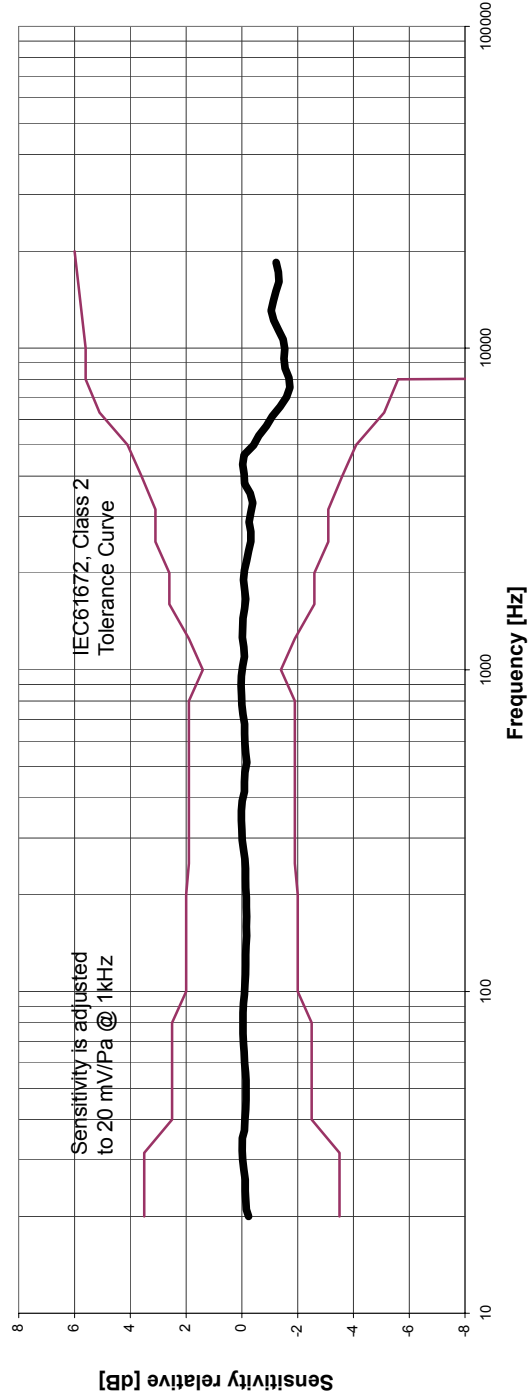
1x MiniSPL measurement microphone + User Manual  
1x Windscreen  
1x Microphone-holder + Adapter 5/8" - 3/8"

## Warranty Terms

NTi Audio guarantees the MiniSPL and its components against defects in material or workmanship for a period of **one year** from the date of original purchase, and agrees to repair or to replace at its discretion any defective unit at no cost for either parts or labor during this period. This warranty does not cover damages caused through accidents, misuse, lack of care, transit, the attachment or installation of any components that were not provided with the product, loss of parts, connecting the instrument to a power supply, input signal voltage or connector type other than specified, or wrongly polarized batteries. In particular, no responsibility is granted for special, incidental or consequential damages.

This warranty becomes void if servicing or repairs of the product are performed by any party other than an authorized NTi Audio repair center or if the instrument has been opened in a manner other than specified in this manual. In case of malfunction, take - or ship prepaid - the MiniSPL, packed in the original box, to the authorized NTi Audio representative in your country. Be sure to include a copy of your sales invoice as prove of purchase date and a detailed description of the fault. For contact-details of the NTi Audio representative please see our web page: [www.nti-audio.com](http://www.nti-audio.com)

## Typical Frequency Response



# MiniSPL

Measurement Microphone



1/2" Capsule,  
Omni-directional

Status LED,  
indicating On status

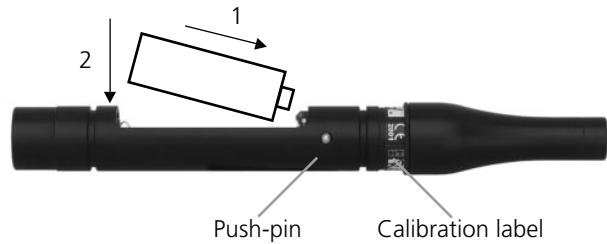
Sleeve

# User Manual



## How to insert the battery

- To insert the battery, press the push-pin in and slide the sleeve off.
- Insert 1x 1.5V AA-size battery according to drawing below. The polarity is marked on the label inside.
- Close the MiniSPL. Turn the sleeve so that it is locked by the push-pin.



**Note: The MiniSPL does not operate without the battery.**

## Notes & Warnings

To avoid any problems during the operation of the instrument, follow the rules listed below:

- Use the instrument for the intended purpose only.
- Never use the instrument in a wet environment.
- Remove the batteries as soon as they are flat or if the instrument is not intended to be used for a longer period of time.
- The use of rechargeable NiCd- or NiMH-batteries is causing shorter battery lifetime than specified.
- Note the correct polarity of the inserted battery.
- We recommend to calibrate the MiniSPL in yearly intervals to fulfill the specified sensitivity.

## MiniSPL with AL1 / ML1

- Connect the MiniSPL to the AL1 / ML1.
- Approximately ten seconds later the Status-LED will start to flash periodically indicating that the MiniSPL has switched on.
- An empty battery will be indicated by the non-flashing Status-LED.
- Simply unplug the MiniSPL after completed operation. Thus the Status-LED will stop flashing, indicating it is switched off.

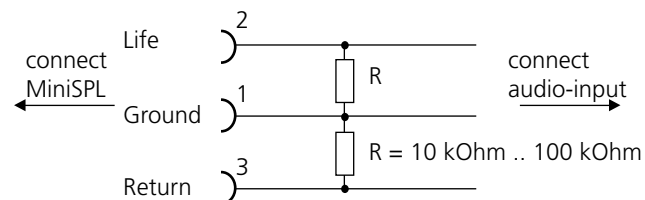
## MiniSPL as stand-alone mic

The MiniSPL may be operated as a stand-alone microphone e.g. connected to a balanced audio-line, a microphone-input or a sound-card.

**Note:** Follow the specified load condition to achieve the flat frequency response. Phantom power causes a lower load condition, so make sure to switch it off.

At inputs with high **DC-input resistance** you may find the MiniSPL not switching on or the delay-time until switching on may be too long. In this case you have to build up an adapter according to the below circuit diagram. Please note that both resistance "R" should be of equal values within 1% tolerance for good signal balancing.

At unbalanced inputs use pin 1 and 2. Pin 3 shall not be connected. In this case the sensitivity will be halved.



## Technical Data MiniSPL

<i>Microphone Type</i>	1/2", omni-directional, pre-polarized condenser, free field transducer
<i>Sensitivity</i>	balanced (20 ±2) mV/Pa unbalanced (10 ±1) mV/Pa @ 1 kHz, 20°C +0.05 dB <sub>SPL</sub> / °C
<i>Frequency Response</i>	acc. to IEC61672, Class 2, tolerance curve is shown on typical calibration certificate
<i>Output</i>	balanced
<i>Peak Acoustic Input</i>	130 dB <sub>SPL</sub> @ 1 kHz
<i>Noise</i>	32 dB <sub>SPL</sub> , A-weighted
<i>Load Conditions</i>	20 - 200 kOhm balanced, to achieve this always switch PHANTOM POWER off.
<i>Power Supply</i>	1x AA battery 1.5 V, battery lifetime typical 300 hrs, no phantom power supply, phantom power resistant
<i>Dimensions</i>	dia 22 mm, length 180 mm, dia 0.87", length 7"
<i>Weight</i>	100 g ( 3.5 oz ) incl. battery
<i>Temperature</i>	0° to +45° C (32° to 113° F)
<i>Humidity</i>	< 90 % R.H., non condensing
<i>Conforms to the Normative Standards</i>	EMC-Directives: 89/336, 92/31, 93/68 Harmonized Standards: EN 61326-1