HEAD acoustics

DATA SHEET

Code 7730

coreIN-Mic4

Microphone input board

OVERVIEW

coreIN-Mic4

Code 7730

*core*IN-Mic4 is an extension board for *lab*CORE. It contains four microphone inputs. Each input connects to the microphone via a LEMO 7-pin socket. The board provides supply voltage as well as polarization voltage for connected microphones. Furthermore, it supports TEDS for data exchange with microphones.

*lab*CORE supports up to six *core*IN-Mic4 boards.

KEY FEATURES

LEMO 7-pin socket connection

200 V polarization voltage for each input

±60 V or +120 V supply voltage at each input

TEDS support

APPLICATIONS

Input for ear microphones of an artificial head

Input for measurement microphones

DETAILS

DESCRIPTION

*core*IN-Mic4 extends *lab*CORE with four high-precision and low-noise microphone inputs. *lab*CORE has one slot at the front panel and maximum five slots at the rear panel for *core*IN-Mic4 boards.

Each LEMO 7-pin supplies voltages of ±60 V or +120 V. Furthermore, *core*IN-Mic4 provides 200 V polarization voltage for externally polarized microphones. The board supports TEDS to exchange information on voltage and calibration values with the connected microphones.

When *core*IN-Mic4 is installed at the front panel of *lab*CORE, LEDs next to each input socket indicate the input level via changing their color. The LCD display of *lab*CORE indicates the input levels of rear mounted boards.

GENERAL REQUIREMENTS

Hardware

*lab*CORE (Code 7700)
› Modular multi-channel hardware platform
*core*BUS (Code 7710)
› *lab*CORE I/O bus mainboard

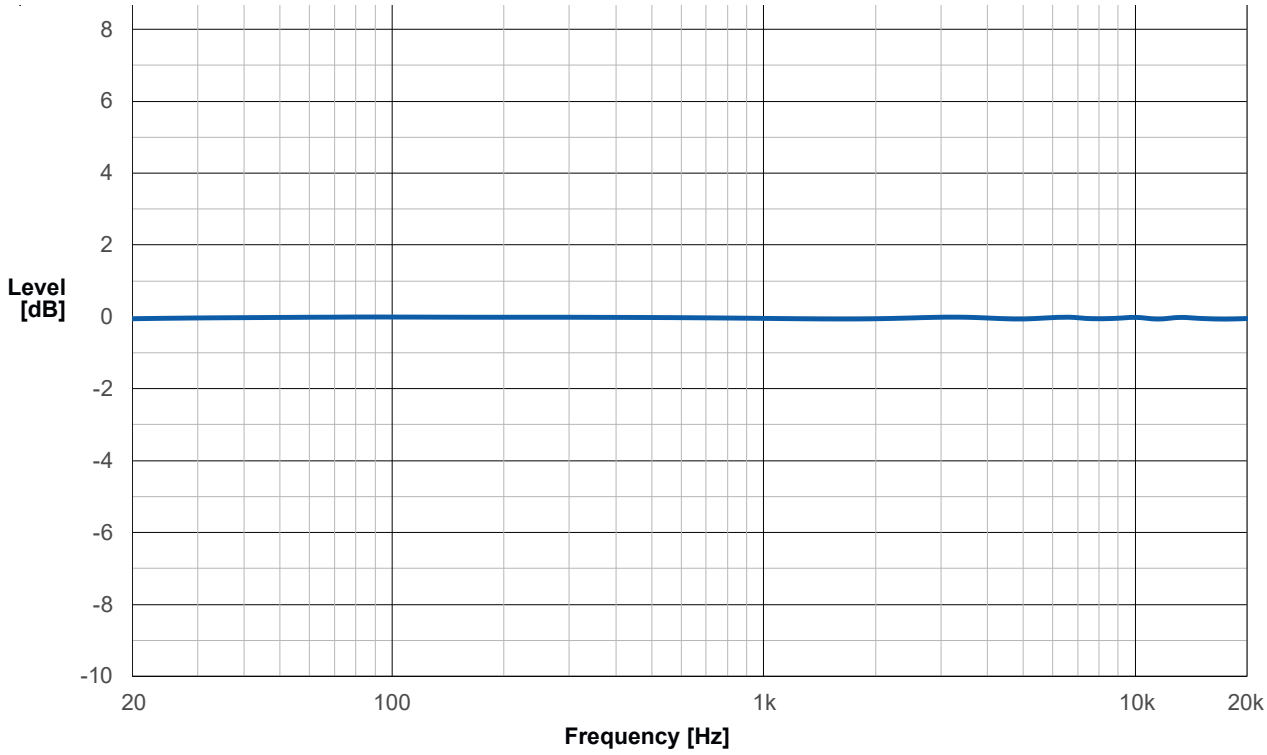
Software

One of the following software applications
ACQUA (Code 6810)
› Advanced Communication Quality Analysis Software, full license version
RC-labCORE (Code 6984)
› Remote configuration software for *lab*CORE
VoCAS (Code 7970)
› Voice Control Analysis System

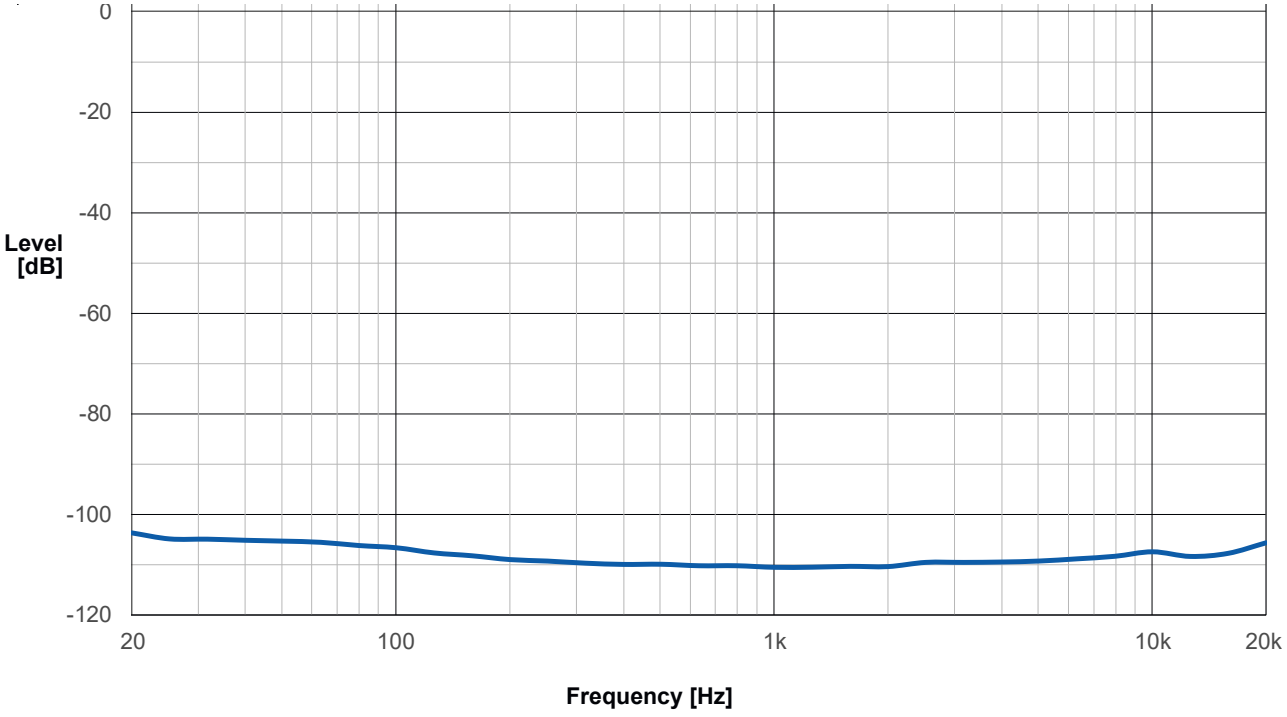
SCOPE OF DELIVERY

*core*IN-Mic4 (Code 7730)
› Microphone input board
Initial equipping
› *core*IN-Mic4 is installed to *lab*CORE during production
Retrofitting
› Send in *lab*CORE to HEAD acoustics for installation

Typical frequency response



Typical total harmonic distortion plus noise (THD+N)



TECHNICAL DATA

Channels	4
Connection	4 x LEMO 7-pin
Input range	-60 V – 120 V
Input impedance	100 kΩ
Input range settings	-48 dBV – 30 dBV (in 6 dBV steps)
Polarization voltage	200 V (±0.1%), max. 80 µA
Microphone supply	±60 V or +120 V, max. 4 mA
TEDS	IEEE 1451.4 class 1 MMI, shared return wire
Level accuracy	±0.1 dB (1 kHz)
Flatness	±0.05 dB (48 kHz sampling, 20 Hz – 20000 Hz) ±0.07 dB (96 kHz sampling, 20 Hz – 40000 Hz) ±0.09 dB (192 kHz sampling, 20 Hz – 80000 Hz)
S/N	112 dB (3.0 V_{RMS}, 20 Hz – 20000 Hz)
THD + N	< -108 dB (3.0 V_{RMS}, 1 kHz)
Crosstalk	< -126 dB
Digital resolution	32 Bit
Sampling rates	48 kHz, 96 kHz, 192 kHz
Typical power consumption	4.8 W

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