

CLIO

ELECTRICAL & ACOUSTICAL TESTS



**PCI PC BOARD
PB-4281 v.5**



**SIGNAL
CONDITIONER
SC-02**

■ PRODUCT DESCRIPTION

The PB-4281 PC board and SC-02 Signal Conditioner form a high precision two channel A/D-D/A audio front-end for your IBM or compatible PC.

The PB-4281 PC board is housed in a standard PCI slot inside your computer and performs precise 18-bit digitizing of the signals to be analyzed.

The SC-02 Signal Conditioner is software controlled via an USB serial link; it is equipped with instrument grade input and output analog circuitry with an exceptionally wide range of output attenuation and input gain that allows an easy interface to the outside world; the input and output loop-back capability with the internal ultra stable voltage reference permits a simple and precise calibration of the whole instrument; the two input channels can be controlled separately or as a single balanced one.

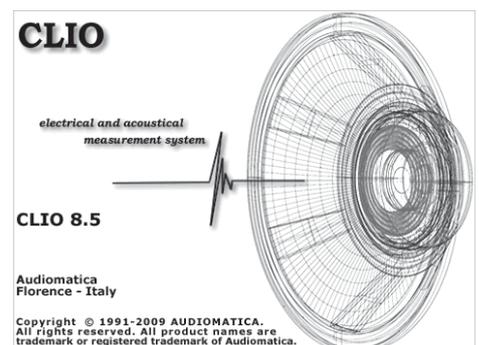
A switchable phantom supply lets you directly connect an Audiomatica MIC-01 or MIC-02 or MIC-03 microphone to any of the SC-02 inputs.

It is also possible to superimpose a DC voltage to the generated AC signal.



■ AVAILABLE SOFTWARE

CLIO 8.5 system software for Windows 2000 or XP.



■ COMBINED TECHNICAL SPECIFICATIONS (PB-4281&SC-02)

■ GENERATOR

Two channels 18 Bit sigma-delta D/A Converter

Frequency range: 1Hz-22kHz

Frequency accuracy: >0.01%

Frequency resolution: 0.01Hz

Output impedance: 150Ohm

Max output level (Sine): 12dBu (3.1Vrms)

Attenuation: 0.1 dB steps to full mute

THD+Noise(Sine): 0.01%

Output DC (Ch. A): $\pm 2.5V$

■ ANALYZER

Two channels 18 bit sigma-delta A/D Converter

Input range: +40 ÷ -40dBV

Max input acceptance: +40dBV (283Vpp)

Input impedance: 64kOhm (5.6kOhm mic)

Phantom power supply: 8.2V

■ PC SYSTEM RESOURCES

One free IRQ

One free USB port

■ MISCELLANEOUS

Sampling frequency: 48kHz ÷ 8kHz

Card type: 12cm. PCI slot card

Audio connections: four RCA plugs



***Turns your PC into the most complete easy-to-use electrical and
acoustical measurement system***



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