



MC3242A 4-Channel Data Acquisition

Features:

- Sampling rate up to 128 kHz
- Low self-generated noise, high dynamic range
- Powered by USB interface
- 4-BNC connectors input channel with ICCP power supply and AC/DC mode switch
- 2-BNC connector voltage signal output channel
- Directly connect to ICCP sensors (such as BSWA MPA201) or voltage signal
- Compact and portable, professional and carrying and shipping case
- Suitable for laboratory and field noise measurements



Application:

- General acoustic measurements: audio recording, spectrum analysis, sound level meter
- Professional acoustic measurements: impedance tube, sound intensity, reverberation time, building sound insulation, sound power, loudness, IACC and so on

Introduction

MC3242A is 4-channel data acquisition developed by BSWA TECH. It is a plug and play virtual instrument system, using the USB interface to connect the computer.

MC3242A was developed base on high performance data acquisition module. It includes 4 input channels and 2 output channels, can simultaneously analyze 4 channels of acoustic and vibration signals. It can apply to most acoustic and vibration testing with the VA-Lab measurement software.

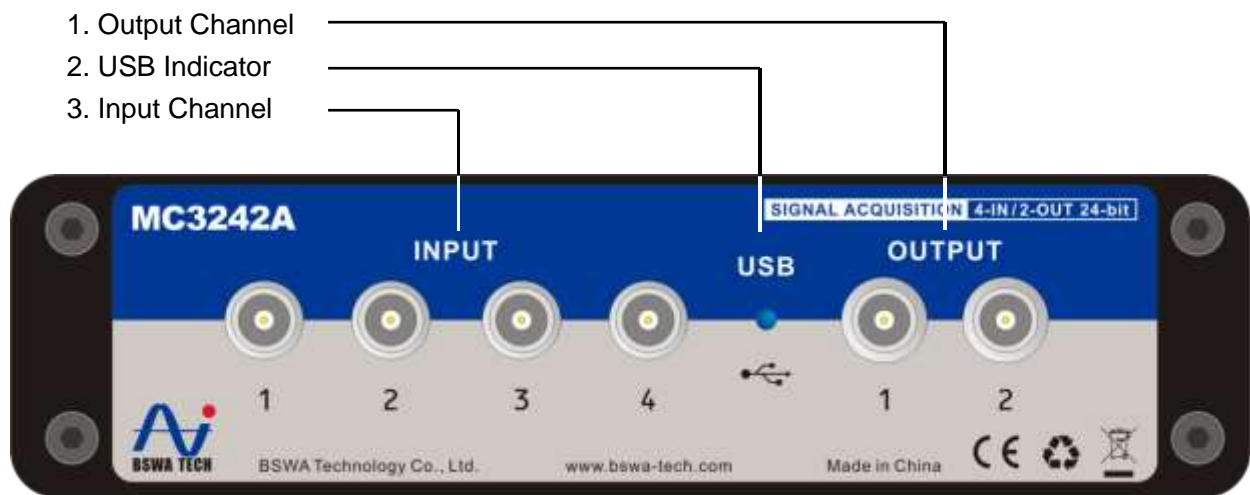
Specifications

Input Channel	4 channel simultaneous sampling
Input Connector	BNC with ICCP power supply (2mA/24V) and AC/DC mode switch (software selectable)
Self-Generated Noise Level	29 dBA (Reference sensitivity: 50 mV/Pa, measured with 18pF capacitive load)
Input Frequency Response	2 Hz ~ 50 kHz (± 0.5 dB)
Input Dynamic Range	108 dB
Input Linearity Range	42 dBA~137 dB (Reference sensitivity: 50 mV/Pa, measured according to IEC 61672: 2013)
Maximum Input Voltage	± 10 V _{peak}
Output Channel	2
Output Connector	BNC
Output Frequency Response	4 Hz~31.5 kHz (± 0.5 dB, output sampling rate 96 kHz)
Maximum Output Voltage	1.8 V _{rms}
Maximum Output Current	± 20 mA
AD/DA Resolution	24 bits
AD/DA Sampling Rate	Input: 1 kHz~128 kHz, Output: 8/16/32/44.1/48/96 kHz

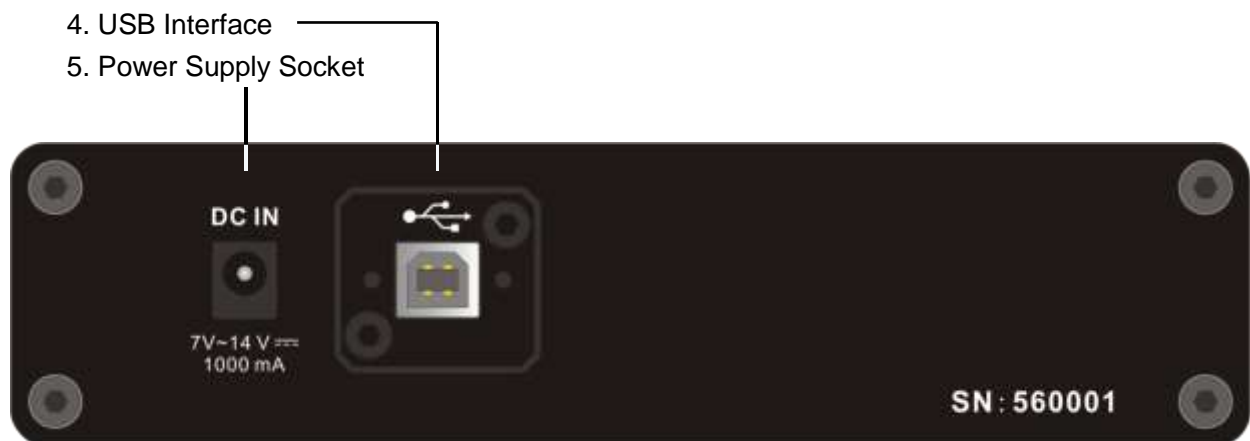


USB Interface	USB-Type B, USB 2.0 compliant
Power Supply	USB power supply (at least 500mA), or external DC power supply 7V~14V (1A)
Operating Environment	Temperature: -10°C~50°C, Humidity:5% RH~90% RH (non-condensing)
Dimension (mm)	W184 x H48 x D220
Weight	1.3 kg (only data acquisition)

Front and Rear Panel



Front Panel



Rear Panel