MC102
2-channel microphone conditioning
Hardware User Manual

No: BSWA-III-C021-03-0001
Ver.: V1.00
1. Introduction

MC102 is a 2-channel ICP power supply that provides a constant 4.0 mA current to ICP microphones and other ICP sensors. The output signals from MC102 can be connected directly to other equipment or data acquisition systems with BNC connectors.

2. Features

✧ 2 input channels, BNC connectors with 4mA ICP power
✧ 2 output channels, BNC connectors, output the voltage signal to DA
✧ Be Connected Directly to MPA201 or other ICP sensors
✧ Be Connected Directly to voltage signal
✧ Channel independency
✧ 9V battery powered or 220V AC power supply:
✧ Small and portable

3. Specifications

Input: 2 BNC
Output: 2 BNC
Max Input: 10V
Max Output: 10V
Frequency Range: 20~200k
Gain: -
Battery Life: > 4 hrs
Environmental Influences: -20°C to~40°C
Size: 130 x 70 x 45 (mm)
Weight: 0.2 Kg
4. Installation of System

4.1 Product should be used accurately to achieve designed function.

4.2 Contents of the Package
- MC102
- 9V battery or AC adapter
- User-Manual
- Test Report

4.3 Structure

Front panel

1. Power supply index
2. Input
3. Switch

Rear panel

4. Output
5. Battery position
5. Operation

✧ For sound or voltage signal, connect Microphone(with preamplifier) to MC102 with BNC-BNC cable;
✧ Connect MC102 to data acquisition with BNC cable, notice the match of input;
✧ Switch MC102 to “ON”, the power index should be lighted, otherwise check the battery or the external AC power;
✧ Ready to test.