



EA011 / EA012 Electrostatic Actuator

Features:

- EA011 is suitable for 1", 1/2" and 1/4" microphone
- EA012 is suitable for 1/2" and 1/4" microphone
- Small and portable

Applications:

- Pressure field frequency response measurement of condenser microphone
- Phase response measurement of condenser microphone



Introduction

EA011/EA012 electrostatic actuator is developed by BSWA for determine the frequency response of condenser microphone.

Electrostatic actuators are used to simulate the pressure response of condenser microphone by apply an alternating electrostatic force in front of the diaphragm and measuring the consequent response of the microphone. The electrostatic force comprising a high polarization voltage (generally 800 VDC) superimposed with a smaller AC voltage. The condenser microphone under test must be metal diaphragm, thus it can be tested by the electrostatic actuator.

EA011/EA012 can be connected directly to the actuator power supply. EA011 is 1" actuator and also available for 1/2" and 1/4" microphone with corresponding adaptor. EA012 is 1/2" actuator and also available for 1/4" microphone with corresponding adaptor. All adapters are optional and need to be ordered separately.

Specifications

Type	EA011	EA012
Application	1", 1/2" and 1/4" microphone	1/2", 1/4" microphone
Standard	IEC 61094-6, ANSI S1.10	
Temperature Range	-30 °C ~ 80 °C	
Humidity Range	0 %RH ~ 95 %RH	
Size (mm)	Φ45 x 17	Φ23 x 10.5
Weight	84g (include connector)	21g (include connector)

Option

Thread Adapter	1" to 1/2"	For EA011 to measure 1/2" microphone and can be connected to the protect cover thread of WS2 microphone
	1/2" to 1/4"	For EA012 to measure 1/4" microphone and can be connected to the protect cover thread of WS3 microphone
Cylindrical adapter	1" to 1/2"	For EA011 to measure 1/2" microphone and needs to be installed on a dedicated calibration support
	1" to 1/4"	For EA011 to measure 1/4" microphone and needs to be installed on a dedicated calibration support
	1/2" to 1/4"	For EA012 to measure 1/4" microphone and needs to be installed on a dedicated calibration support



Photo of EA011/EA012

