



CRY3285

1/2" Free-field Ext-Polarized High-sensitivity Microphone

Features

Key Specifications

Sensitivity
Dynamic Range
Frequency Range

50 mV/Pa 16 dB to 146 dB 3.15 Hz to 20 kHz ±2 dB

Applications

Anechoic chamber test Electroacoustic test Noise test

Standards

IEC 61094 4:1995 Measurement microphones - Part 4

Introduction

CRY3285 is a 1/2" free field externally polarized measurement microphone that is widely used in acoustic test environments such as anechoic and quiet rooms.

It has a frequency response range that matches the auditory frequency range of the human ear, making it very suitable for noise detection. In addition, it is widely used in various fields such as electroacoustic measurement, audio measurement and acoustic research.

Highlights

Use of High-sensitivity Free-field Microphones

High-sensitivity microphones have a broad measurement frequency range and are applicable to a variety of measurement scenarios.

Free-field microphones are specifically designed for measurements in environments that are free from reflections or echoes and are widely used in fields such as acoustic research, noise monitoring, and sound system testing.

Calibration

Each CRYSOUND microphone is calibrated at the factory using traceable calibration equipment. Calibration certificates are provided with each unit. CRYSOUND recommends recalibration at least once a year.

Quality & Warranty

All CRYSOUND microphone capsules use 3rd generation titanium diaphragms and protection grids and synthetic sapphire insulators – resulting in the most rugged and reliable measurement microphones on the market. Titanium provides superior corrosion resistance, high temperature stability, impact resistance and strength-to-mass than traditional nickel and stainless steel. All capsules are assembled in strict clean-room environments for maximum quality.

CRYSOUND microphones are supported by a 10-year warranty—offering one of the best service guarantee in the world.



Technical Specifications

Field Type	Free-field	
Sensitivity(±1.5 dB)	50 mV/Pa, -26 dB re 1V/Pa	
Frequency Response	3.15 Hz to 20 kHz ±2 dB	
Polarization Voltage	200 V	
Capacitance	15 pF (@250 Hz)	
Dynamic Range(re.20uPa)	16 dB to 146 dB	
Inherent noise	16 dBA	
Operating Temperature	-30°C to +80°C(-22°F to +176°F)	
Temperature Stability	0.010 dB/°C (-10°C to +50°C) 0.006 dB/°F (+14°F to +122°F)	
Static Pressure Stability	-0.01 dB/kPa	
Operating Humidity Range	0 to 90%RH no condensation	
Humidity Stability	< 0.1 dB (0 to 90%RH no condensation)	
Pressure Equalization Vent	Rear vented	
IEC 61094-4 Type	WS2F	
Dimensions		
Height with Grid	16.2 mm (0.64")	

Drawings(mm)[inch]

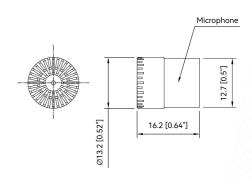


Fig.1 CRY3285 Microphone Drawings

Frequency Response

Related Products

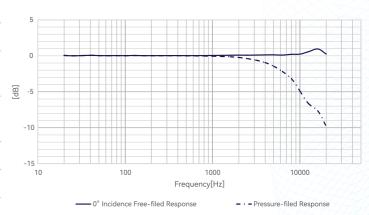


Fig.2 CRY3285 Microphone Typical Frequency Response

Ordering Information

Diameter with Grid

Optional Accessories		
Power Supply	CRY575 Three-channel Microphone Power Supply	
Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer	

13.2 mm (0.52")

CRY3281	1/2" free-field ex-polarized high- frequency microphone, 12.5 mV/Pa, 3.15 Hz-40 kHz, 23 dB-160 dB
CRY3284	1/2" pressure-field ex-polarized high- sensitivity microphone, 50 mV/Pa, 3.15 Hz-10 kHz, 16 dB-146 dB
CRY3482	1/4" pressure-field ex-polarized High frequency microphone, 1.6 mV/Pa, 4 Hz-70kHz, 45dB-170 dB
CRY3485	1/4" free-field ex-polarized high- frequency microphone, 4 mV/Pa, 4

Hz-90kHz, 35dB-165dB