

## CRY351 Measurement Microphone

CRY351 measurement microphone is a pre-polarized 1/4-inch free-field condenser microphone. It is a kind of sensors that converts acoustic signals into electrical signals. The microphones are made of high-quality materials and Titanium membrane, this will ensure its perfect corrosion resistance and keep robustness from other kinds of environmental interference. Laser welding process provides a life-long stability in different temperature and humidity.

Its sensitivity is 15.8mV(-36dB)  $\pm 2$ dB @250Hz and the frequency response is 4Hz – 40kHz  $\pm 2$ dB.



### Feature

- ✓ Meet IEC 61094-4:1995 Measurement microphones-Part 4: Specifications for working standard microphones
- ✓ Meet GBT 20441.4-2006 Measurement microphones-Part 4: Specifications for working standard microphones

### Technique Specification

### Specification

CRY351 Measurement Microphone	
Field Type	1/4" Free-field
Sensitivity mV/Pa (dBV/Pa)	15.8mV(-36dB) $\pm 2$ dB
Frequency Response(dB)	4Hz - 40kHz $\pm 2$ dB
Polarity Voltage (V)	0V (Pre-polarized)
Typical Capacitance (pF)	7pF(@250Hz)
Linearity Range (ref. 20uPa)	20-140dB (@250Hz sensitivity changes 0.2dB/10dB)
Dynamic Range Limit (ref. 20uPa)	$\geq 140$ dB (@250Hz THD<3%)

Inherent Noise (ref. 20uPa)	≤20dBA (@250Hz)
Working Temperature	-20°C to +60°C
Temperature Coefficient	+0.015dB/°C (-10°C to +50°C @250Hz)
Static Pressure Coefficient	-0.01dB/kPa
Relative Humidity Range	0- 90% no condensation
Relative Humidity Coefficient	<0.1dB (0- 90% no condensation)
Long Period Stability	<0.03dB/a (20°C @250Hz)
Short Period Stability	<0.03dB (20°C @250Hz)
Microphone Venting	Side pressure
Pressure Balanced Time Coefficient	>0.05s
IEC 61094-4 Compliance	WS3F

## Mechanical Size

Height (with boot cap)	10.5mm
Diameter (with boot cap)	7mm
Height (without boot cap)	9mm
Diameter (without boot cap)	6.35mm
Diaphragm Ring	5.8mm
Preamplifier suit screw thread	5.7mm-60UNS
Boot cap screw thread	6.45mm*0.2-60UNS

## CRY351 Pressure field measurement microphone typical response curve

