

# **LSM50C LSM900 LSM1000**

## **Professional Omni-directional Instrument Microphones**



**The LSM family of electret condenser microphones are high quality omni-directional microphones featuring an extended frequency response with an excellent transient response. Three different models offer a choice in sensitivity. They are suitable for choirs, conferences, surveillance and virtually all acoustic instrument applications. They are also repairable.**

## Applications

The versatile characteristics of the LSM series of microphones enables their use on a very wide range of musical instruments and applications. These include acoustic stringed instruments such as guitar, banjo, violin, lute and bouzouki. They are also suitable for drums, percussion, brass instruments, flute, choirs, conferences and surveillance applications. Multiple LSM900s can also be used successfully on grand piano, piano accordion, bass clarinet and percussion instruments such as marimba, vibraphone and xylophone. The microphones are free of the bass boosting proximity effect found when using most cardioid microphones close to a sound source.

In most instrument applications the LSM microphone can be mounted closer to the sound source than could a conventional microphone. This results in greater *loop gain* (i.e. louder signal before feed back), even though the LSM microphone has an omni-directional pattern.

## Specifications

### Generating Element

Omni-directional Electret Condenser

### Frequency Response

20Hz - 20kHz  $\pm 3$ dB  
(into 2000 ohm load)

### Output Level (0dBm = 1 mW/Pascal)

LSM50C: -23dBm  
LSM900: -33dBm  
LSM1000: -43dBm

The LSM50C has the highest output, while the LSM1000 has the lowest.

### Maximum Sound Pressure Level

LSM50C: 110dB<sub>SPL</sub> (6.3 Pascals)  
LSM900: 120dB<sub>SPL</sub> (20 Pascals)  
LSM1000: 130dB<sub>SPL</sub> (63 Pascals)

### Power Supply

5 to 50V Phantom Power  
with indicating LED

### Recommended Load Impedance

1000 ohms or greater

### Finish

Non reflecting black capsule  
Black connector and cable

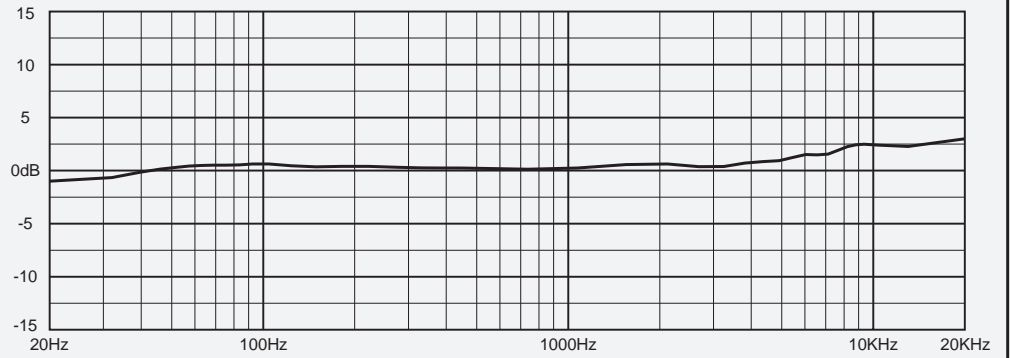
### Dimensions

Capsule: 7mm diameter.  
Cable: 2.3 metres standard.  
Other lengths available to order.

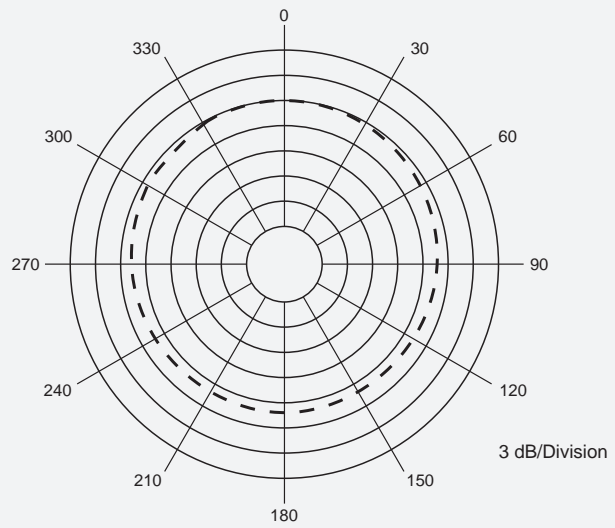
### Accessories

Foam wind-sock (included)  
Tie clip (available separately)

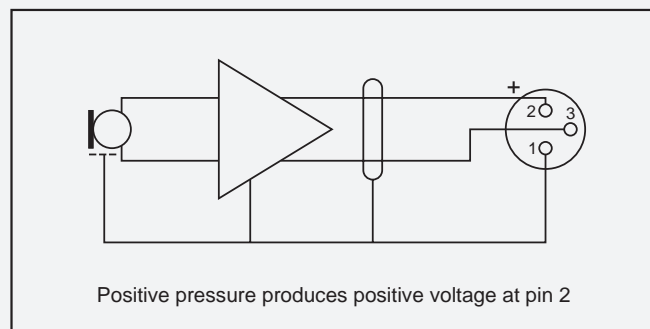
# Specifications



Frequency Response



Polar Response



Positive pressure produces positive voltage at pin 2

Wiring Diagram

**Warranty**

The LSM50C, LSM900 and LSM1000 microphones are guaranteed for two years from date of original purchase against defects in workmanship and materials. If such malfunction occurs, the item will be repaired or replaced (at our option) without charge for materials or labour if delivered prepaid to THE LEON AUDIO COMPANY. Unit will be returned prepaid. Warranty does not cover finish or malfunction due to abuse or operation at other than specified conditions. Repairs by other than THE LEON AUDIO COMPANY or authorised agents will void this guarantee.



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