

Microphone

(Order Code NavMike)

The Microphone can be used for a variety of analysis of sound waves.

Collecting Data with the Microphone

Here is the general procedure to follow when using the Microphone:

1. Connect the Microphone Probe to the LabNavigator.
2. The software will identify the Microphone and load a default data-collection setup. You are now ready to collect data.

Specifications

Frequency range	approximately 20 Hz to 16,000 Hz
Maximum frequency	10,000 Hz
Power	7.5 mA @ 5 VDC
Stored calibration	

Slope 1

Intercept 0 (arbitrary units)

Note: The maximum data collection rate of the interface affects the maximum frequency you can effectively sample.

This sensor is equipped with circuitry that supports auto-ID.

How the Microphone Works

The Microphone uses an electret microphone that has a frequency response covering essentially the range of the human ear. An op-amp circuit amplifies the signal and sends it to the British Telecom connector.

Ensure the sound level is in the correct range to produce good wave patterns. If the sound is too loud, the wave pattern will be "clipped off" at the top or bottom. Move the microphone further from the sound source, or turn down the volume of the sound.

Warranty

Forston Labs warrants this product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. This warranty does not cover damage to the product caused by abuse or improper use.



Measure.Analyze.Record

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