



Geophone - SM-24

SEN-11744

★★★★☆ 1

DESCRIPTION

DOCUMENTS

Need to put your finger on the pulse of the Earth? Did I just blow your mind? A geophone works by translating ground movement into voltage, which can easily be read by a microcontroller. The SM-24 geophone element is designed to offer the highest performance in seismic exploration based upon field-proven I/O Sensor technology. Low distortion, combined with excellent specifications, provide high-fidelity data. Basically, it's a super low frequency microphone for the ground.

Perfect for all of your 2-D & 3-D seismic exploration needs with bandwidth from 10 Hz up to 240 Hz

Features:

- Tight specification, low-distortion vertical geophone
- Extended spurious over 240 Hz, allowing full bandwidth at 2-ms sampling
- Sensitivity of 28.8 V/m/s



images are CC BY 2.0



Geophone - SM-24 Product Help and Resources

SUPPORT TIPS

SKILLS NEEDED

Polarity

last updated about 10 months ago

An engineer from ION (the company that manufacturer's the SM-24) indicated that there is a polarity to the geophone. The pin that is closest to the notch is the geophone's positive terminal. With two or more geophones in a project, you will need to make sure that the sensors are wired in the same orientation. Otherwise, the signals will cancel each other out.

Going Further: Additional Tutorials and Examples

last updated about 10 months ago

- [Arduino Project Hub: Measuring seismic activity using ProtoCentral OpenPressure](#)
- [Arduino Forums: Arduino Geophone Application Circuit](#)

COMMENTS 32

REVIEWS ★★★★★ 1

Customer Reviews

★★★★☆ 4 out of 5

Based on 1 ratings:



4 star		1
3 star		0
2 star		0
1 star		0

Currently viewing all customer reviews.

★★★★☆ A bargain!

about 11 months ago by **Member #90138** ✓ verified purchaser

Sure, it's not a calibrated geophone, but it does the job for us. We use it in the optics lab to hunt down the sources of vibrations. Feed it into a dynamic signal analyzer, oscilloscope, or data acquisition system and you're good to go. Remember to add the specified damping resistor across the geophone's outputs.



SUBSCRIBE TO NEWSLETTER

In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

About Us

[About SparkFun](#)
[SparkFun Education](#)
[Feeds](#)
[Jobs](#)
[Contact](#)

Programs

[Become a Community Partner](#)
 • [Community Stories](#)
[Custom Kit Requests](#)
[Tell Us About Your Project](#)
[Sell Your Widget on SparkFun](#)
[Become a SparkFun Distributor](#)
[Large Volume Sales](#)

Help

[Customer Service](#)
[Shipping](#)
[Return Policy](#)
[FAQ](#)
[Chat With Us](#)

Community

[Forum](#)
[SparkFun IRC Channel](#)
[Take the SparkFun Quiz](#)
[SparkFun Kickstarter Projects](#)
[Distributors](#)

What's on your mind?

For which department?

General

Please include your email address if you'd like us to respond to a specific question.

email address

SUBMIT

[SparkFun Electronics](#) ® / [Niwot, Colorado](#) / [Customer Service](#) / [Site Map](#) / [Terms of Service](#) / [Privacy Policy](#)

Questions? Feedback? powered by [Olark live chat software](#)