

Any geophone spacing

Any number of channels

Any geophone array

- No geophone cables
- Lightweight and compact
- Expandable—just add more channels
- Built-in rollalong
- Electrical Noise free

The AnySeis™ is a revolutionary seismic system: Individual acquisition modules can be connected anywhere on common 2-conductor wire (speaker wire or lamp cord). Each contains a geophone and a 32-bit A/D converter. Power goes down the line and digital data comes back up to the computer. The modules can be attached at any station interval in the field, connecting through a “vampire tape” to fit your array to the survey purpose, freeing you from the bondage of spread cables.

GEOSTUFF

Instruments for Seismic Exploration



Free yourself from spread cables. AnySeis™ modules use common 2-conductor wire to create a string of geophones with whatever spacing you or the job dictates. Each geophone has a built-in acquisition module that communicates digital data over the wire. Connecting with a “vampire tap” (a pair of pins that penetrate the insulation), they can be placed and connected at any position along the seismic line.

Now you don’t need to inventory and ship an assortment of heavy geophone cables or make guesses about what you will need in the field. Easily adjust the interval to fit the project, or even use non-linear spacing if necessary. The AnySeis™ seismic system works particularly well for the nested triangular arrays used to record natural vibrations for MASW.

A number of geophones can be daisy-chained along the zip line. Channel numbers are automatically sequenced depending on their position along the wire. The wire can be used over-and-over again, and eventually replaced at low cost.

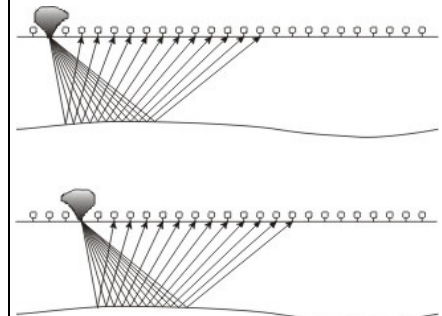


Vampire Tap

Sharp pins penetrate the insulation and make connection to the cable. An LED flashes to confirm connection and self-test functionality. The lid latches and connects the module to the wire as fast as hooking Mueller clips to a standard spread cable. Polarity is automatically determined so it doesn’t matter how wires are connected

Perfect for Rollalong

Reflection surveys are conducted by moving the energy source and geophones a short distance along the ground, firing shots, and collecting overlapping sets of data. The process continues linearly until the area of interest is covered.



This laborious procedure is made efficient by placing a few extra geophone stations on the ground connected to the system. The software on the computer will roll the active channels along the ground.

Alternately, you can just record all the data from all the stations and sort it later with your preferred processing software.



AnySeis™ lends itself to roll-along: just lay out a long spread with extra geophones in the direction of the survey path. When it’s time to roll, just pull some geophones from the back and carry them up to the front. Continue as needed to the survey end.

This eliminates the need for extra CMP cables and a rollalong switch.

Why we hate geophone cables



A geophone cable has a large number of tiny wires bundled together: 24, 48, 96 or more, wrapped in a polyurethane jacket. Connectors for the geophones, called takeouts, are molded at equal intervals along the cable.

These cables are heavy and expensive, more so as they get longer and have more geophone takeouts. Cables used for reflection surveys have to accommodate what is called “roll along”: the process of moving the geophone array along the ground indefinitely. More conductors and special hermaphroditic connectors are required, as well as a rollalong switch.

There are always compromises with geophone cables. If the interval between the takeouts is long enough to accommodate deep surveys, they are troublesome to handle for small scale surveys. As a result, most users end up buying multiple cables. If you decide to expand your seismic system to more channels, your existing cables may become obsolete.

Want to cross a highway? Better protect your cable from traffic. Tempted to leave it on the job site overnight? Beware of animals seeking tasty plastic. Once you’ve had to splice a geophone cable, you’ll never want to do it again.

And of course cables are susceptible to electrical noise from power lines, industrial machinery, and inverters.

How about special layouts? Concentric shapes and 3D configurations are difficult or impossible with standard geophone cables. AnySeis™ will change the way seismic surveys can be conducted.

- AC power cord or speaker wire is inexpensive and disposable. Buy a spool and use it until it wears out. Splice it with twist-on wire connectors when needed.
- Tune your survey geometry in the field without carrying multiple cables.
- Low shipping costs: carry your system in a suitcase to a distant job site.
- Industry-standard 32-bit A/D conversion: ¼, ½, 1, 2 and 4 ms sample intervals, truncated to 24 bits.
- Replaceable sensor elements—standard 15 Hz sensors operate vertically or horizontally. Other sensors from 2 to 40 Hz can be substituted and even replaced by the user in the field.
- Purchase additional modules at any time to increase the number of channels.
- Functional self-test LED confirms proper connection and active sensing of seismic vibrations. Stomp your foot to verify operation.
- Fail-safe modules are independent. If one breaks, just set it aside or replace it with a spare. Never go home without data because of equipment failure.
- Buy an extra controller and split the components when you have two simultaneous projects or combine them for a larger system or 3D surveys.
- Cross rivers or roads as needed without worrying about damage to expensive, multi-conductor seismic cables..
- Less expensive than a conventional seismic system with geophones and multiple cables.
- No problem with cables wearing out. Replacement wire is available worldwide, including your local hardware store.
- Use extra wire to cross or go around obstacles.



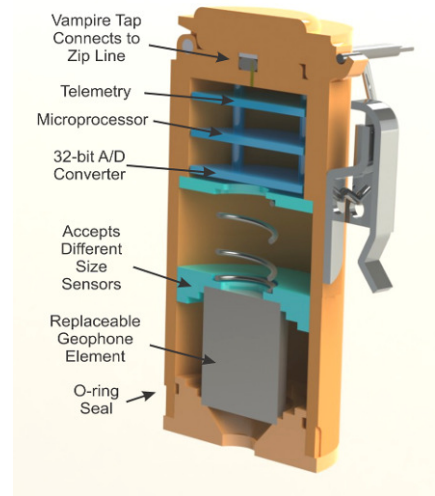
AnySeis™ modules work well with land streamers — the interval between units can be adjusted to the desired spacing, even at the job site.



Module screws onto standard top plate



AnySeis™ is also available with connector for use with an external geophone.



Controller module interfaces the seismic spread to the computer through the USB port. Also connects to the hammer switch. Small 12-volt battery powers string of geophone stations.



Conduct shear wave surveys with optional bracket. Standard 15-Hz sensor operates in either orientation.

AnySeis™

Seismic acquisition module with built-in geophone

32-bit A/D converter, samples at 1/4, 1/2, 1, 2 or 4 millisecond intervals; 24-bits used

Stacking for use with sledge hammers and mechanical energy sources

Modules connect over standard SPT-1 zip line (lamp cord, Belden 19122, speaker wire, or equivalent).

Standard geophone element is 15 Hz omni-directional (use it vertically or horizontally). Optional 2, 4½, 10, 28 or 40 Hz sensors may be substituted or replaced by the user. Also available with connector for external geophone.

System operates with standard notebook computer running Windows operating system.

File Format: SEG-Y readable by all seismic processing software

Module weight: 315 grams with spike and standard geophone

Power: 1/3 watt/channel

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