

Ultraphone™ UM-2 3W

The New Standard in Seismic Data Acquisition



- Ultra-low distortion
- Compatibility with modern 24 bit recording systems
- Inductive damping
- Spurious-free band pass @ 2ms sample rate
- High sensitivity
- True amplitude response
- Precision tolerances
- Available in rugged land and marsh cases
- 3 year warranty on geophone element
(excluding damage caused by lightning, high voltage and/or physical abuse)



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Sercel, through the acquisition of Mark Products, can now offer a large choice of geophones to the seismic industry. The Ultraphone™ UM-2 3W is today the most advanced geophone and is ready to go to work anywhere in the world, providing the user with the ability to meet the most stringent requirements and parameters.

The low distortion, patented Ultraphone™ UM-2 3W has been developed utilizing a scientific breakthrough in Rare Earth Magnetic Technology. This technology, coupled with other unique features, results in the most advanced geophone in the seismic industry. Computer-aided design of all parameters and precision robotic machining of critical parts ensures constant repeatability of all specifications throughout the long life of the Ultraphone™ UM-2 3W.

Technical excellence in the design of inductive damping ensures faithful recording of the true amplitude of the seismic signal, regardless of temperature changes in the geophone spread during the recording day.

Today's high technology recording systems are capable of precision measurement of distortion, sensitivity, damping, natural frequency, phase characteristics and other operational specifications of the entire geophone spread. The Ultraphone UM-2 3W gives the user the unique ability to take maximum advantage of these capabilities.



Specifications

| | |
|----------------------|---|
| Distortion | Less than 0.075% with tilt from 0° to 20° |
| Spurious Frequency | Beyond 250 Hz |
| Frequency | 10 Hz \pm 3.5% |
| Open Circuit Damping | 68% \pm 3.5% (64.5% - 71.5%) |
| Sensitivity @ | |
| 68% Damping | 27.5 V/m/sec \pm 3.5% (0.6999 V/in/sec) |
| Coil Resistance | 395 Ω |
| Moving Mass | 8.4 g (0.29 oz) |
| Coil Travel | 1.78 mm (0.07 in) |
| Diameter | 27.4 mm (1.08 in) |
| Length | 31.5 mm (1.24 in) |
| Weight | 76.4 gm (2.68 oz) |

All parameters are 24°C

