



PMD
SCIENTIFIC, INC

**LOW NOISE
TRIAxIAL GEOPHONE
LNG203**



LNG203 is an economical high quality tri-axial geophone aimed at a wide variety of seismic and industrial applications. The instrument has an unlimited shelf life and is essentially maintenance-free.

The geophone is exceptionally rugged. Its output signals are velocity-flat; the use of a dual-coil design minimizes interference from external electromagnetic fields.

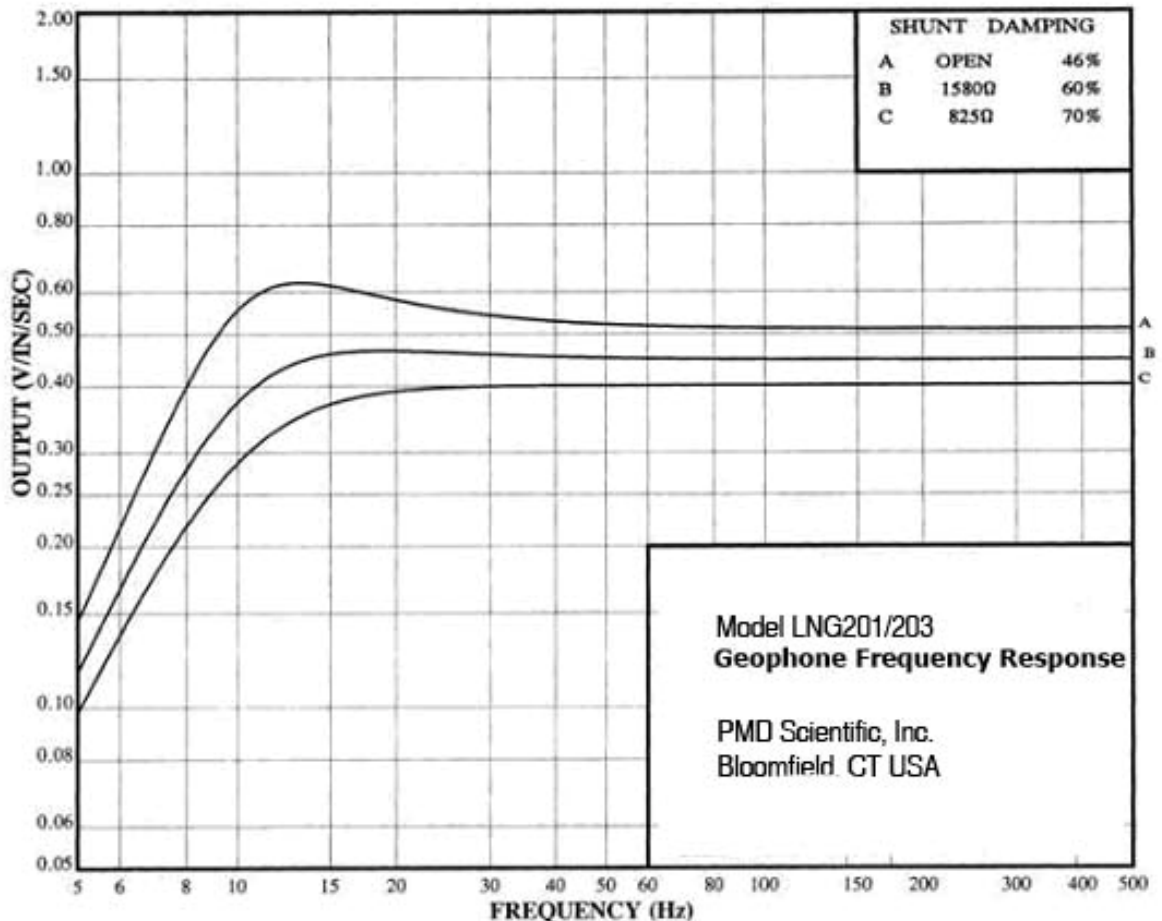
Since the sensitivity on each primary geophone sensor single-ended output is very low (no better than 20V/m/s), the instrument is equipped with programmable gain low-noise operational amplifiers that allow user to select between 4 available sensitivities and also convert the single-ended output to differential thus drastically reducing the common mode noise.

Also available are single-axis models **LNG201h** and LNG201v.

LNG203 Specifications

PARAMETER	VALUE
Natural Frequency, Hz	10±1
DC Coil Resistance, Ohm	225
Sensitivity at the Coil Terminals, V/m/s	20.1±10%
Differential Output Sensitivity for Gains 10,25,40,50, V/m/s	400;1000;1600;2000
Open Circuit Damping	0.46±20%
Damping Constant	251
Coil inertial mass, g	12.8±5%
P-P Coil-to-Case Displacement, mm	Min. 1.3; Max. 2.5
P-P Output Differential Voltage Swing, B	±5
Operating/Storage Temperature Range	-45°C - +85 °C
Dimensions, diameter x height, mm	110 x 150
Weight ¹ , g	600

Frequency Response



¹ In a heavy-duty PVC housing