


# CENTURY GEOPHYSICAL LLC. PRODUCT DESCRIPTION

## 9622 Series Magnetic Susceptibility Tool



**Background Information**  
The Magnetic Susceptibility tool is a slim hole mining tool primarily designed to measure the magnetic susceptibility of the formation. Additionally, optional natural gamma, inclinometer and magnetometer sensors.

Features	
Properties Measured (see diagram)	Tool Specifications
<p><b>1. Natural Gamma: (optional)</b> 2.2 x 10.2 cm (0.875 x 4 in.) Scintillation Crystal Offset: 17.68 cm (6.96 in.)</p> <p><b>2. Slant Angle and Azimuth Measurements:</b> 3-axis magnetometer 2-axis inclinometer Offset: 34.44 cm (13.56 in.)</p> <p><b>3. Magnetic Susceptibility :</b> Dual-focused coils, 1.44kHz operating frequency 10.2 cm (4 in.) resolution vertically and horizontally offset: 210 cm (82.68 in.)</p>	<p><b>Length:</b> 241cm (95 in.) <b>Temperature:</b> 70 C (158 F) <b>Diameter:</b> 4.1 cm (1.63 in.) <b>Pressure:</b> 253 kg/cm<sup>2</sup> (3600 PSI) <b>Weight:</b> 18 kg (40 lb.) <b>Logging Speed:</b> 9 m/min. (30 ft./min.) <b>Tool Voltage Required:</b> 36 VDC</p>

Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0 to 10,000 api units 0 to 320,000 cps	+/-5%
Magnetic Susceptibility (MS)	0 to 90,000 cgs	+/-5%; 20 x 10 <sup>-5</sup> cgs temperature drift over range
X-Y Inclinometers (XYI)	0 to 90 degrees	+/- .5 degrees
Azimuth (AZ)	0 to 360 degrees	+/-2 degrees

Tool Information		
Item	Model #	Part #
Tool with MS	7622	314500C
Tool with NG, MS	8622	314500B
Tool with MG, MS, XYI, AZ	9622	314500A
<a href="#">Deviation Calibration Test Stand</a>		317420
Calibration Fixture for Mag. Susceptibility		318261