

CENTURY GEOPHYSICAL LLC.

PRODUCT DESCRIPTION

9098 Gyro Deviation Tool



Background Information

Deviation information is valuable in mine planning and subsurface mapping. The gyroscopic device is used for measuring deviation through steel drilling rods or casings and in open holes where magnetic rocks occur. The digital solid state design uses a continuous reading gyroscope (modified Goodrich, or WellNav), with information recorded at operator selectable sample intervals. It is not necessary to stop to take station data. Natural Gamma and Magnetic Azimuth are optional. All software to process survey data (including drift corrections) is included in the Log and Display programs which is included with the System VI logging system..

Features

Properties Measured (see diagram)	Tool Specifications
<p>1. Natural Gamma (optional): 2.2 x 10.2 cm (0.875 x 4.0 in.) NaI Scintillation Offset: 29.7 cm (11.7 in.)</p> <p>2. Tilt measurement: X-Y Inclinometers Offset: 31.2 cm (79.2 in.)</p> <p>3. Gyro: Mechanical 2 degrees of freedom Offset: 224 cm (88.2 in.) Sold Separately.</p> <p>4. X-Y-Z Magnetometer (optional): Offset: 31.2 cm (79.2 in.)</p>	<p>Length: 242.6 cm (95.5 in.) Temperature: 85 C (185 F) Diameter: 42 mm (1.63 in.) (upper) 45 mm (1.75 in.) (lower) Pressure: 232 kg/cm² (3300 psi) Weight: 13.4 kg (29.5 lb.) Logging Speed: 15 m/min. (50 ft./min.) Tool Voltage Required: 60 VDC Accessories Required: Landing Table & Legs, Sighting Scope, Gyro Surface Power Supply, Switching Box, and SRG Gyro Logging Cable Requirements: 4 Conductor</p>

Sensor Response Ranges

Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0 to 10,000 API units	+/-5%
X-Y Inclinometers (XY)	0 to 90 degrees	+/- .5 degrees
Gyro (Goodrich DG-69 or WellNav, Sold Separately)	0 to 45 degrees from vertical	+/-1 degrees
Azimuth (AZ) Magnetic Measurement (Optional)	0 to 360 degrees	+/-2 degrees

Tool Information

Item	Model #	Part #
Tool with Natural Gamma , and XYZ Magnetometers	9097	316000E
Tool with Natural Gamma, (No XYZ Magnetometers)	9098	316000D
Gyro, DG-69 Modified (Required)		316010
Gyro Power Supply (Required)		121-9201
Switching Box (Required)		317031
Landing Table with Scope Assembly (Required)		313300
Deviation Calibration Stand (Optional)		317420