

GyroTracer Directional™ 45mm

The GyroTracer Directional™ 45mm north seeking gyro is recognised as a benchmark navigation technology. Its unique sensor platform allows for continuous, high-speed gyro surveys in all casing, tubing and drill pipe sizes. With its robust and innovative fluid filled design, real-time steering operations are now possible.

This instrument can accurately survey all well profiles from vertical to horizontal, pumpdown capability and continuous surveying at high latitudes or inclinations with no accuracy degradation. Unlike other continuous gyro systems, the GyroTracer Directional™ does not require any surface alignment or surface calibration prior to survey.



Features and benefits

- Enhanced mapping and planning with full understanding of well placement
- Increased safety when drilling brownfields, due to collision avoidance
- Windows cutting, orienting downhole motors and wedge setting
- Quality control/checks of MWD tools after completion
- Highly accurate, extremely reliable downhole directional survey and orientation
- Gyro compassing method to find direction
- Not affected by magnetic interference, therefore can be run inside casing, tubing and drill pipe
- Universal calibration stand simple to use, non-magnetic light weight and durable for rapid calibration



Specifications

Description	GyroTracer
Diameter	45 mm (1.77")
Length	Gyro module: 95 mm (36.6") Telemetry module: 450mm (17.72") Memory module: 800mm (31.50")
Weight	8kg (17.6 lbs)
Surface unit	Dimension: 17 x 22 x 8.5 cm
Accuracy	Inclination: $\pm 0.05^\circ$ Position: NS, EW, TVD < 0.1% of well depth continuous mode Gravity toolface: $\pm 0.1^\circ$ for incl. > 3° Gyroscopic toolface: $\pm 1.0^\circ$
Repeatability	$\pm 0.5^\circ$
Inclination range	0° to 180° (from vertical)
Pressure rating	70MPa (10,000 psi)
Temperature rating	SRO: -30°C to 85°C (-22°F to 185°F). memory: -30°C to 60°C (-22°F to 140°F) (can be extended with HT batteries)
Survey speed	Up to 150m/min (492 ft/min)