



Continuous Btotal™ is Scientific Drilling's proprietary real-time magnetic monitoring solution that provides early detection for the industry's toughest challenges, including collision avoidance and close-proximity drilling.

Derived from SDI's high-accuracy MWD and gyroMWD technology, Continuous Btotal™ reduces risk and delivers confidence in the most uncertain environments.

$$B_{total} = \sqrt{B_x^2 + B_y^2 + B_z^2}$$

Btotal is the total magnetic field intensity measured by the three-axis magnetometer package within the MWD tool. The field intensity of the magnetic vector sampled by the magnetometers is determined by utilizing the equation above.

For more information on improving your drilling efficiency [while staying on target] contact your Scientific Drilling sales representative or visit: <http://scientificdrilling.com/magnetic-ranging>

APPLICATIONS

- + Collision avoidance
- + Close proximity drilling
- + Plug and abandonment
- + Relief wells
- + Fish bypass

BENEFITS

- + Allows real-time transmission of Btotal and Bz curve data while sliding or rotating for increased operational efficiency.
- + Increases the likelihood of early detection of an offset wellbore without having to stop and take a full MWD survey.
- + Provides insight into the character, intensity, and distribution of magnetic anomalies on the target well casing.
- + Delivers significant cost savings by identifying the precise interval over which to acquire ranging data, eliminating unnecessary check shots and reducing rig time.
- + Can be used as a general indicator of proximity to an offset well during twinning applications, allowing the interval between ranging operations to be increased.
- + Combines with SDI's gyroMWD and MagTraC Ranging services to deliver the industry-leading MWD ranging solution.