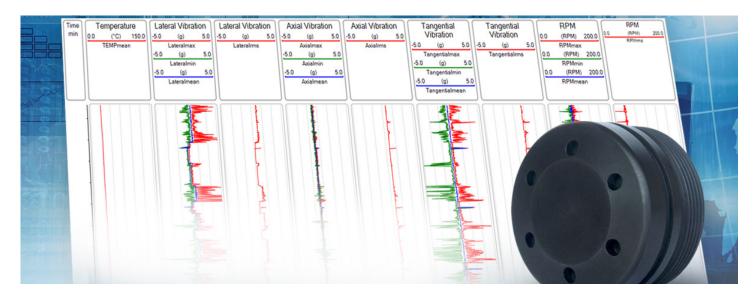
BlackBox Eclipse Downhole Measurement Tool



The BlackBox™ Eclipse downhole measurement tool is a descendant of the BlackBox Plug drilling dynamics memory-mode logging tool, offering additional features, increased accuracy, and higher resolution. The BlackBox Eclipse tool is deployed in a BlackBox carrier sub, allowing for flexible placement in the BHA or the drillstring. The tool is user-configurable to capture an array of measurements, including multi-axis vibration, temperature, and rotation. Through application of extensive knowledge and experience, the BlackBox Eclipse tool can help deliver custom solutions to drilling challenges by maximizing performance and reducing well delivery costs.

Features and Benefits

Flexible deployment options—carrier sub sizes range from 4.75 to 9.5-in. OD

• Allows for various data collection techniques

Gyro RPM sensors

 Provides accurate data at all speeds and with all carrier sub sizes

Three-axis vibration measurement

· Captures detailed downhole behavior

Continuous and burst data

• Captures high-frequency data for analysis

User-configurable data rates

• Enhances flexibility to enable use in complex projects

Field-replaceable electronics

· Minimizes tool downtime

Sensor Measurement and Accuracy

Three-axis vibration (XYZ-axis)	
RPM	0 to 250 RPM (±1 RPM)
	-1,000 to 1,00 RPM (±5 RPM)
Temperature40 to 302	e°F (-40 to 150°C) (±37°F / 3°C)

General Specifications

Material	High-strength steel alloy
Rated pressure	25,000 psi
Rated temperature	302°F
Battery life	Up to 200 hr*
Memory storage	128 MB
	User-configurable statistical continuous data rates up to 800 Hz User-configurable interval burst settingsStatistical max, min, mean, and RMS

*Results may vary with configuration



