

BitIQ



ReedHycalog is proud to offer the BitIQ™ bit sensor that measures, records, and consolidates statistical summaries of at-bit vibrations (axial, lateral, and tangential), downhole temperature, and gyro RPM. Our easy-to-use BitIQ sensor offers simple installation and operation, with no additional personnel required at the rigsite.

After a bit run, the recorded data is downloaded via a custom mobile application and uploaded to a cloud-based system for processing. The data is automatically processed with proprietary algorithms, and a statistical vibrations summary report is produced within minutes of data capture. The swift analysis and data provide crucial insights into at-bit dynamic events.

The BitIQ report provides the informed correlation between bit dull and at-bit vibrations, enabling data-based drill bit design decisions to deliver better bit performance. The BitIQ report will help you further improve drilling efficiency through drilling parameter optimization and the implementation of best practices.

To find out how we can help achieve your drilling objectives, **contact your local NOV representative or go to nov.com.**

Specifications

Sensor	Range
3 Axis accelerometer	±120 G
Single axis gyro	±665 RPM
Temperature sensor	32 to 257°F, 0 to 125°C

General Specs

Master sampling rate	128 Hz
Memory	16 MB
Temperature rating	32 to 257°F, 0 to 125°C
Maximum pressure	15000 psi, 1000 bar
Size (diameter)	1½ in, 42 mm
Retention system	Snap ring

Modes

Deep sleep	Jumper in (~1 yr)
Installed activated	~2 months
Recording time	200 hr