PRODUCT DATA SHEET

ACT III™

IMDEX™

Confident decisions based on reliable orientation data.

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ACT III™

Description

ACT III™ is a digital core orientation system that records the orientation of the core sample and other key data in core drilling operations. It has a patented rapid descent system that reduces time to complete core recovery.

ACT III is easy to use and reliable, designed to withstand the harshest conditions and treatment in the bottom-of-hole environment. Its high level of data accuracy leads to better understanding of the geological structure, ultimately resulting in enhanced drill program management and geotechnical planning.

Application

The ACT III is designed to improve productivity on-site. It is supplied as a two-tool system, while one tool is down the hole, the other is ready for the next run, ensuring no interruption to drilling operations.

Core samples are easily matched with orientation data using a simple to use leveling jig. Bottom or top orientation can be accurately transferred to any core sample. The controller also indicates if the downhole unit has encountered temperatures above its safe operating range, displayed on the LCD screen during data retrieval.

Integration

The ACT III controller displays accelerometer data collected via time stamping technology, including depth values (when entered at each orientation), inclination, roll, gravity, temperature and all button presses.

Unique sequence logic prevents the recording of incorrect data and eliminates operator error, whilst REFLEX's digital auditor software is used for QA/QC and audit purposes, as well as operational performance and production analysis.

Advantages

- Withstands the harshest conditions and treatment in the bottom-of-hole environment
- State of the art controller technology ensures robustness and water resistance
- No moving parts and long-life lithium batteries. The ACT III needs no maintenance and will operate for approximately 12 months under normal use

Core sizes	
N, N2, N3, H, H3, P, LTK60, B, BTK®, W/L56, W/L66, W/L76, BTW, NTW	
Dimensions	
Length	300 – 400mm
Control unit	
Outer diameter	42mm
Length	300mm
Weight	30kg (Average weight per kit)
Operational environment	
Operational temperature (downhole instrument)	-30°C to 60°C (-22°F to 176°F)
Operational temperature (control unit)	-30°C to 50°C (-22°F to 122°F)
Performance	
Dip Range	0° to ± 88°
Accuracy	± 1°
Battery	
Battery Type	Non-rechargeable lithium battery pack
Battery Life (downhole instrument)	Up to 2 years (infrequent use) Up to 12 months (normal use)
Battery Life (control unit)	>2 years (infrequent use) 2 years (normal use)

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