

9: Transmitter

9.1: Introduction

The transmitter provides drill head temperature, clock position pitch, battery status and locating signal. The transmitter transmits signals at .3kHz, .6kHz, 1kHz, 2kHz, 4kHz, 7kHz, 10kHz, 12kHz, 16kHz, 19kHz, 22kHz, 25kHz, 28kHz, 31kHz, 36kHz and 41kHz. The transmitter will enter a “sleep” mode after 15 minutes without rotation. It takes 10 seconds to “wake up” once the transmitter is rotated.

Note: If drilling in adverse soil conditions (i.e. rock), normal C cell batteries will experience battery chatter. This can greatly reduce battery life. To prevent this, use your provided double C lithium or UM Rechargeable Echo Cell Kit.



9.2: Specifications

Echo 50



Dimensions	1.25" X 15" (3.2 cm x 38 cm)
Frequency	12 frequencies 4kHz-41kHz
Depth Range	90ft / 130ft / 130ft (27.4m / 40m / 40m)
Power	Echo Cell Kit (21700) or Lithium Battery (261020)
21700 (4.2v)	Normal Power: 50 hours High Power: 12 hours
261020 (3.7v)	Normal Power: 60 hours High Power: 15 hours
Temperature	Under 220° F (104° C)

Echo 50XF

Dimensions	1.25" X 15" (3.2 cm x 38 cm)
Frequency	16 frequencies .32kHz-41kHz
Depth Range	Normal Power: 131ft (40m) High Power: 164ft (50m)
Power	Echo Cell Kit (21700) or Lithium Battery (261020)
21700 (4.2v)	Normal Power: 50 hours High Power: 12 hours
261020 (3.7v)	Normal Power: 60 hours High Power: 15 hours
Temperature	Under 220° F (104° C)

