



## NaviTrack Battery Sonde User Manual

# Installing the NaviTrack Battery Sonde™

The NaviTrack Battery Sonde is a powerful, miniaturized transmitter that can be installed at the end of a fiberglass push cable, duct rod or sewer cable. The Battery Sonde transmits a 512 Hz signal that can be picked up with any compatible locator, allowing users to pinpoint the transmitter's position underground.



## Features

Operates up to four hours on one AAA size alkaline battery

Simple operation – tighten/loosen the battery cover to turn the transmitter ON/OFF

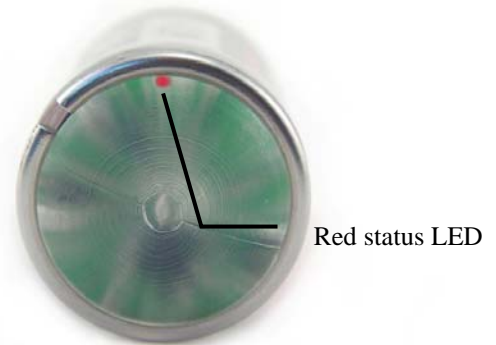
LED operation/battery status indicator



**Battery Installation** – unscrew the battery cover and insert a new AAA size alkaline battery, *positive end first*, as shown on the label.



**Turning the Transmitter ON and OFF** – to turn the transmitter ON, tighten the battery cover fully, the LED will flash. To turn the transmitter OFF, loosen the battery cover  $\frac{3}{4}$  turn, the LED will turn off.



**Figure 1** – When the transmitter is ON, the red LED will flash slowly. When there is not enough power for proper operation, the red LED will flash rapidly. If LED does not flash, or if it flashes rapidly, replace the AAA battery.



**Figure 2** – to install the transmitter onto a push cable, screw the threaded end of the battery cover onto the end of the push cable. Tighten with pliers to make sure it doesn't work loose during use.



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### Specifications:

Size:  $\varnothing$  0.9375" x 2.92"

Weight (with AAA alkaline battery): 3.5oz (100g)

Mounting Threads: 1/4" – 20 (see website for optional accessories)

Operating Frequency: 512Hz

Frequency Tolerance:  $\pm$  30-50ppm (.00005 Hz)

Current Draw Tolerance:  $\pm$  .015A

Recommended Battery: Duracell MX 2400 AAA cells (M3 Ultra) have the highest average Amp-Hours output.

Operating Range of battery is -4°F to 130°F.

Battery Life with Duracell M3 Ultra: 3.5 hours at 70°F

Typical maximum detection range with NaviTrack receiver (varies with ambient noise and interference):

In air: 25 ft

In cast iron: 15ft

Typical interference sources: Ductile iron, cast iron, wet salt laden ground.