



Mini

SOUNDER



**SOUNDER
SERIES**

Proudly Made
In CANADA





ISO9001:2015
REGISTERED

Proudly Made
In CANADA



Mini SOUNDER



Knudsen Sounder Systems are the next benchmark in survey echosounders. The affordable MiniSounder Sounder is industry unique in both compact size and performance. Less than 3 kg. in weight, the system incorporates the latest in digital signal processing technology and includes Knudsen SounderSuite Windows application software for easy interface to your computer via a USB connection. The MiniSounder is ideal for easy transport to changing project sites, and is well suited for quick deployment on small survey platforms in open air environments.

Available only in a single channel configuration but with a wide frequency range, the MiniSounder also offers the flexibility of using more than one MiniSounder together (up to 4) simultaneously within one user application. An attractive low cost, easy portability, and expandable design architecture make the MiniSounder an excellent choice for any project.

Technical Specifications (subject to change without notice)

Available Channels
Single channel only

Frequency
24 kHz - 210 kHz

Input Power
12 - 30 VDC

Pulse Length
Up to 4 ms

Gain
Manual, automatic (AGC), and time-varied (TVG)
96 dB range of programmable analog gain

Ranges
5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000

Phasing
Manual and automatic (up to 50% overlaps)

Units
Meters, feet, or fathoms

Resolution
1 cm (0 - 99.99), 1 dm (100 - 999.9), 1 m (> 1000)
1/100 ft (0 - 99.99), 1/10 ft (100 - 999.9), 1 ft (> 1000)
1/100 fm (0 - 99.99), 1/10 fm (100 - 999.9), 1 fm (> 1000)

Sound Velocity
1300 - 1800 m/s Resolution 1 m/s
4265 - 5906 ft/s Resolution 1ft/s
710 - 984 fm/s Resolution 1 fm/s

Draft
0 - 100 m Resolution 1 cm
0 - 328 ft Resolution 0.01 ft
0 - 54 fm Resolution 0.01 fm

Ingress Protection
Designed to meet a rating IP65
IP67 version available as an option

Operating Range
0 - 200 m (with 200 kHz transducer)

Output Power
Up to 1 kW

Output Data
Full resolution envelope data in KEB binary format and
XTF (for sidescan only)
User configurable ASCII digital depth string

Dimensions
257 mm (10.1") x 158 mm (6.2") x 89 mm (3.5")

Weight
Less than 3 kg (7 lbs)

Interface
USB 2.0 Full Speed (12 Mbps)

Operating Temperature
0 - 50 °C

Additional Features
Frequency agility on all channels
Built-in drivers for all popular GPS
Built-in test signal generator
Compatible with industry standard dataloggers and
processing software (Hypack, QINSy, SonarWiz)
Heave compensated echogram

Options
Sidescan option
Network option for multiple-PC operation
Remote display indicators
EchoSIM Sonar Signal Simulator

SounderSuite Software (included)
Compatible with Windows
Easy to use graphical user interface
PostSurvey Display and Printing Software
Large Digitized Depth Display
Print to standard Windows printers

Accuracy
1 cm + 1 ppm x D (0 - 99 m) using 200 kHz (5°) transducer
This assumes ideal laboratory conditions: flat and hard bottom, precise speed of
sound and draft, optimal control settings (Power, Pulse Length), perfectly stable
setup with calm water.