

# **KNUDSEN**

## **SHALLOW WATER LOOKS DEEPER**

### **PORTABLE SHALLOW WATER CHIRP SUB-BOTTOM PROFILER**



Proudly Made  
In CANADA



[www.knudsenengineering.com](http://www.knudsenengineering.com) 613-267-1165



# Pinger SBP

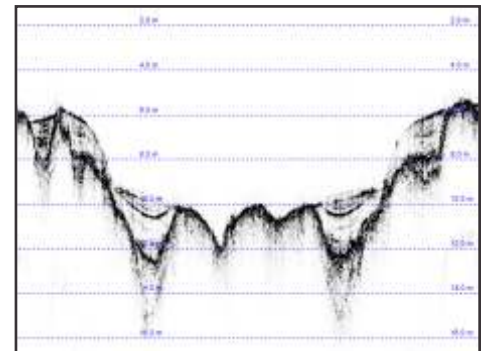
Technical Specifications	Channel 1		Channel 2
<i>(subject to change without notice)</i>	3.5kHz	15kHz	200kHz
<b>Echosounder</b>			
<b>Bandwidth</b>	User configurable (up to 20kHz)		
<b>Output Power</b>	2kW	2kW	1kW
<b>Pulse Length (min / max)</b>	62.5us / 64ms		62.5us / 4ms
<b>Ping Repetition Rate (max)</b>	20 Hz		
<b>Gain</b>	Manual, automatic (AGC), and time varied (TVG)		
<b>Analog Gain</b>	96dB programmable analog gain		
<b>Time Varied Gain (TVG)</b>	10logR, 20logR, 30logR, 40logR, Bottom Referenced		
<b>Range (min / max)</b>	5/10000 (see Units)		
<b>Phase</b>	Manual and automatic (up to 50% overlap)		
<b>Units</b>	Meters, Feet, or Fathoms		
<b>User Interface</b>	Control using standard Windows PC		
<b>Digital Data Formats</b>	SEG-Y, XTF, KEB (Knudsen proprietary), ASCII		
<b>Power Supply</b>	12 - 24 Vdc		
<b>Operating Temperature</b>	0 - 50 degC		
<b>Enclosure</b>	Portable splashproof case		
<b>Dimensions (length x width x height)</b>	488mm (19.2") x 386mm (15.2") x 185mm (7.3")		
<b>Weight</b>	12kg (26lb)		
<b>Transducer</b>			
<b>Projector</b>	KELD5701	KEL291-15kHz	KEL491
<b>Type</b>	Single Piston	3 Element Ceramic	Ceramic
<b>Impedance</b>	200 Ohms	60 Ohms	60 Ohms
<b>Peak Transmit Voltage Response</b>	149dB	157.5dB	176dB
<b>Receiver</b>	KEL-Hydrophone		KEL491
<b>Type</b>	PVDF		Ceramic
<b>Beamwidth</b>	30 deg @ 6kHz	12 deg @ 15kHz	9 deg @ 200kHz
<b>Peak Receive Voltage Response</b>	-197.2 dB re 1V/uPa		-191 dB re 1V/uPa
<b>Overall Assembly</b>			
<b>Dimensions (length x width x height)</b>	864mm (34") x 495mm (19.5") x 222mm (8.75")		
<b>Weight</b>	16.2kg (36lb) - 15kHz Option		
	22.1kg (48lb) - 3.5kHz Option		
<b>Cable Length</b>	15m (50ft)		
<b>Installation</b>	Pole mount -over the side		



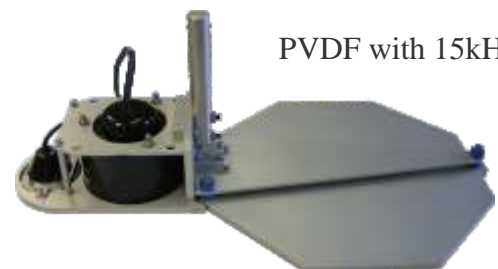
Fiberglass Fairing Assembly



PVDF with 3.5kHz and 200kHz



PVDF with 3.5kHz



PVDF with 15kHz