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underwater technology

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Dura-Spark L200 Seismic Sound Source

Key features

- Long life, durable electrodes
- Pulse stability
- High resolution sub-bottom data, up to 25cms
- Compact, lightweight
- Single low loss cable
- **Inter array: Flip-Flop capability**
- **Inter array: Fire-Delay capability**

Applications

- High and Ultra-High Resolution geophysical surveys
- Single and multi-channel acquisition
- Water depths of 5 to >1000m

Dura-Spark L200 Overview

The Dura-Spark L200 has been designed to provide a lightweight stable, repeatable sound source for sub-bottom geophysical surveys. The long life, durable electrodes produce a consistent pulse signature and keep operational maintenance to a minimum. This provides increased survey efficiency and equipment reliability as the sparker tips rarely need replacement.

The Dura-Spark L200 consists of 2 banks of 100 tips that allow the operator to tune the source from the vessel to its application. Each bank can be fired independently, in Flip-Flop mode or Fire-Delay mode (for pulse tuning). This flexibility, together with selectable source depth, allows the sound source to be used in both shallow and deep waters for multiple seismic data gathering applications.

When coupled with the CSP-NP or CSP-Nv Seismic Power Supply the system offers 2000J/s peak discharge rate, as well as industry leading design and safety standards.

Technical Specification

PHYSICAL

Dimensions	Length 1250mm Height 530mm frame Width 910mm, including floatation
Weight	47kg
Connector	RMK 1/0 complete with locking collar

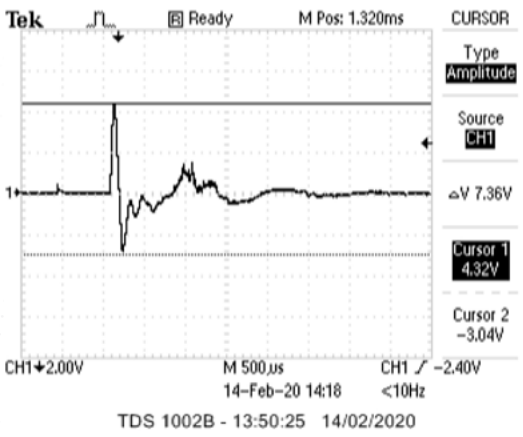
ELECTRICAL INPUT

Typical operating energy (100 tip)	300J, <3J per tip to minimise bubble collapse component. 500J Maximum
Typical operating energy (200 tip)	500J, <3J per tip to minimise bubble collapse component. 1000J Maximum
Operating voltage	3000-4000V
Tip configuration	200 (2x 100 bank)
Power Supply	CSP-NP, CSP-Nv1200, CSP-Nv2400, CSP-SNv1250
HV Supply Cable	HVC-2002
Junction Box	HVJ-2001, HVJ-2002

SOUND OUTPUT

Source level	222dB re 1µPa at 1m (typical)
Pulse length	0.5 to 1.5ms Dependent on power applied

TYPICAL PULSE SIGNATURES AT 500J



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Due to continual product improvement specification information may be subject to change without notice.
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