

LK-81-NI RELEASE LINK - SubSeaSonics (USED WITH AR-50-AA Acoustic Release)

(Revised Nov. 29, 2012. File = LK-81-NI_DATA_SHEET)

Description: Highly corrosion resistant release link for use with AR-50-AA acoustic release. Release hoop made with high nickel content metal wire. Same as LK-80 except 60% nickel alloy hoop. Releases quicker and uses less battery energy versus the LK-92.

LK-81-NI Load limit: 80 lb (36 kg) plus a 40 lb surge.

Hoop size: Large enough to pass a 1/8 inch diameter line.

Wire metal: Proprietary, highly corrosion resistant.

Use: Replaceable release link for use with AR-50-AA acoustic release.

Method of release: Electrolytic erosion of wire at exposed points.

Hoop construction wire diameter (excluding paint): 0.035 inch (0.89 mm).

The following table shows approximate release erosion times with 9 Energizer L91 lithium AA batteries wired in series and installed internal to the AR-50-AA. (A lithium battery pack made by Sub Sea Sonics is recommended p/n BAT-50-AA-L91):

HOOP PAINT REMOVED - WORST CASE (Lithium batteries)	HOOP PAINT INTACT (Lithium batteries)
10 minute @ 21°C (70°F)	4 minute @ 21°C (70°F)
13 minute @ 5°C (41°F)	6 minute @ 5°C (41°F)
15 minute @ 0°C (32°F)	7 minute @ 0°C (32°F)

Note: Bio fouling can extend these times by restricting the water path for ion flow.

Release erosion time with 9 alkaline AA batteries in place of lithium's: Up to three times as long.

Battery "energy" used per release for worst case of all paint scraped off: 150 mA-Hr. One set of 9 lithium batteries should last 1.0 year including 10 releases or 0.5 year including 15 releases.

Reference Information: Lithium battery capacity = 3000 mA-Hr. Maximum battery current while ON and listening for a command equals 0.220 mA.