

DKM590

Maritime Underwater Locating Device (ULD)



The Future of Underwater Locating Devices

The DKM590 is an advanced Maritime ULD that leverages Dukane Seacom's 30 years of industry-leading experience and technology with improved battery safety. This includes a non-restricted Class-9 lithium battery, fully compliant with DO-227A Lithium Battery requirements for containment of thermal runaway. More importantly, the DKM590 conforms to the International Maritime Organization (IMO) performance standards, including MSC.333 (90) and MSC.163 (78), as well as SAE AS8045A.

The DKM590 uses a high-strength black anodized aluminum housing for maximum corrosion resistance. In addition, the DKM590 features improved omni-directional output for more evenly distributed sound waves to improve location accuracy, which is the most important characteristic of ULDs.

The DKM590 has the same dimensions as all of Dukane Seacom's 90-day ULDs and uses common installation and maintenance processes. This commonality offers VDR manufacturers and maritime fleet operators consistent maintenance practices for all industry ULDs.

The DKM590 provides highly-reliable performance, improved corrosion resistance, enhanced acoustic output, and superior battery performance and safety. With a standard four-year battery life minimum, the DKM590 combines the best features available in maritime ULDs today.



KEY FEATURES

- ▶ Non-restricted Class-9 lithium battery 
- ▶ Meets the IMO requirements of MSC.333 (90), MSC.163 (78), and SAE AS8045A:2011
- ▶ Corrosion-resistant black anodized housing
- ▶ Full containment of battery thermal runaway
- ▶ Enhanced omni-directional acoustic output
- ▶ Improved battery technology for maritime applications
- ▶ 90-day operation
- ▶ 4-year customer-replaceable battery
- ▶ Same form factor as current DKM502/90 and DKM502
- ▶ Field-replaceable battery

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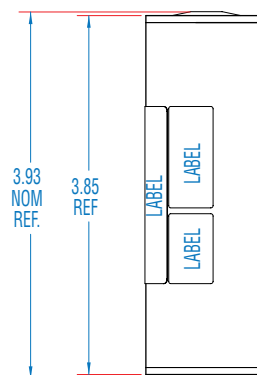
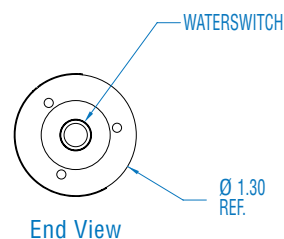
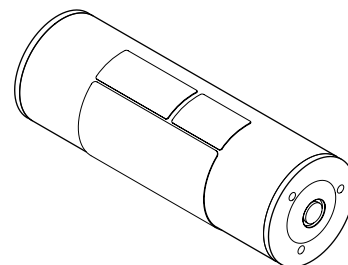
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Product Dimensions



Side View

SPECIFICATIONS

Operating Frequency	37.5 kHz \pm 1 kHz
Operating Depth	Surface to 20,000 feet (6,096 meters)
Pulse Length	10 milliseconds \pm 10%
Pulse Repetition Rate	0.9 pulse/second minimum
Battery Life	4 years
Operating Life	90 days (minimum)
Acoustic Output, Initial	1060 dynes/cm ² rms pressure at 1 meter (160.5dB)
Acoustic Output, After 90 Days	700 dynes/cm ² rms pressure at 1 meter (157.0 dB)
Operating Temperature	+28°F to +100°F (-2.2°C to +37.8°C)
Actuation	Fresh or salt water
Radiation Pattern	Rated output over 80 percent of sphere
Size	1.30" diameter x 3.93" long (3.30 cm diameter 9.98 cm long)
Weight	Less than 6.7 oz (190 grams) (including battery)
Material	7075-T6 Aluminum, anodized finish
Power Source	Two ULD batteries, multicell (< 2g Lithium total)
Storage Temperature	-65°F to +160°F (-54°C to +71°C)
BSH Conformity	MSC.333 (90) MSC.163 (78)
Performance	SAE AS8045A (ULD) RTCA DO-227A (ULD Battery)

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