



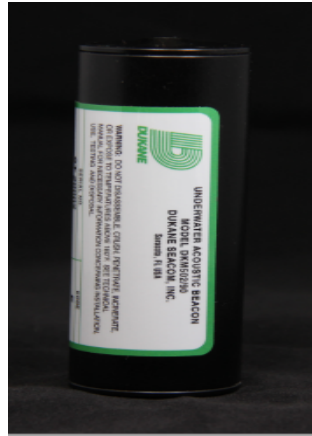
# DKM502/90

## 37.5 kHz – 90 Day Marine Beacon

### Specifications

Building on over 40 years of underwater acoustic beacon manufacturing experience, Dukane Seacom has developed DKM502/90 which is the newest version of the IMO standard in underwater acoustic locating beacons for maritime use. Expanding on the proven reliability of the DKM502, the DKM502/90 will assist in location of VDR & S-VDR capsules up to 6096 meters or 20,000 ft. water depth.

The DKM502/90 will provide a minimum of 90 days of uninterrupted operation once activated, complying with minimum standard specification SAE8045A, IEC61996-1 & IEC-61996-2. & BSH approved



*DKM502/90 with N30A26 Series Mounting Kit*

### Physical Characteristics

- Watertight aluminum case (1.3" dia, 3.99" length (less mount)).
- Capable of operation at depths of up to 20,000 feet (6096 m).
- Detectable at a range of 2000 to 4000 yards (1800 to 3600 meters) based on environmental factors.
- Sustained pressure up to 8700 psi.
- Dual water switch actuation initiates beacon operation upon immersion in either fresh or salt water.
- The battery used to power the DKM502/90 will sustain beacon operation for a minimum of 90 days at an acoustic output of 160 dB. Operating frequency is 37.5 kHz.

# ***DKM502/90***

## ***37.5 kHz – 90 Day Marine Beacon***

### **Beacon Specifications**

Operating Frequency.....	37.5 kHz $\pm$ 1 kHz
Operating Depth.....	Surface to 20,000 feet (6096 meters)
Pulse Length.....	9.0 milliseconds Minimum
Pulse Repetition Rate.....	Not less than 0.9 Pulse/Sec.
Operating Life.....	90 Days ( Minimum).
Battery Life In Beacon.....	3 Years
Acoustic Output, Initial.....	1060 dynes/cm <sup>2</sup> Rms pressure at 1 meter (160.5dB)
Acoustic Output After 90 Days.....	700 dynes/cm <sup>2</sup> Rms pressure at 1 meter (157.0dB)
Operating Temperature Range.....	+28°F (-2.2°C) to +100°F (+37.8°C)
Actuation.....	Fresh or salt water
Radiation Pattern.....	Rated output over 80 percent of sphere
Size.....	1.30 inches (3.30 cm) diameter x 3.99 inches (10.13 cm) long (less mount)
Weight, Beacon.....	6.7 ounces (190 grams)
Weight, N30A26 Mount.....	6 ounces (170 grams)
Storage Temperature Range.....	- 65°F (-54°C) to 160°F (71°C)
Battery.....	Replaceable

### **Standard Features**

- Military grade corrosion protection.
- Chemical coating systems MIL-A-8625
- Innovative engineering technology that protects against inadvertent actuations.
- TS300 Portable Test Set shall be used to perform operational tests on the beacon.
- It can be detected at a range of 2000 to 4000 yards with DSL-375 locator.

The DKM502/90 is a replacement for the Novega PT9 Ninety