

O.E. ENTERPRISES

(OCEAN ENGINEERING ENTERPRISES)

"OCEANEARS"

DSD-6E ACOUSTIC DIVER SIGNALING DEVICE

"U.S. NAVY APPROVED"

INPUT VOLTAGE RANGE: 6 to 18 Volts DC

18 VDC Battery Pack attached.

Pin Suspension Design

Toggle Switch/Rotary Switch Versions

OPERATING INSTRUCTIONS

WARNING: HAVE ALL PERSONNEL WHO WILL BE OPERATING THE DSD-6E DIVER SIGNALING DEVICE READ AND UNDERSTAND THESE OPERATING INSTRUCTIONS.

WARNING: An in water STAND-OFF RANGE of 3 (THREE) FEET will be used during all diving operations when operating the DSD-6E Diver Signaling Device. Be sure all divers are at least 3 feet away from the DSD-6E before turning on the Diver Signaling Device.



Jan. 1, 2017

O.E. ENTERPRISES

1638 Cottonwood Drive
North Canton, Ohio
44720-1102 USA

TEL: (330) 896-3644 FAX: (330) 896-8816

Web Site <http://www.oceanears.com>

DSD-6E ACOUSTIC DIVER SIGNALING DEVICE

INTRODUCTION: The DSD-6E ACOUSTIC DIVER SIGNALING DEVICE is a design using STATE OF THE ART PIEZOELECTRIC TECHNOLOGY with OFF-the-SHELF self contained Electronics resulting in a LOW-COST RUGGED **U.S. NAVY APPROVED UNDERWATER ACOUSTIC DIVER SIGNALING DEVICE**

that is a **NON-Explosive** means of providing Diver Signaling Capability Underwater for Military Dive Teams at a very economical price. The construction techniques used in the manufacture of this Diver Signaling Device will greatly reduce the potential for electric shock to Dive Teams and galvanic corrosion has been eliminated; since **NO METAL** is exposed directly to the water.

COMPONENTS: The DSD-6E ACOUSTIC DIVER SIGNALING DEVICE comes set up to operate on 6 to 18 Volts DC operation. The DSD-6E Diver Signaling Device comes with 50 feet $\pm$ 5 feet of power cable and a 18 VDC Battery Pack permanently attached to the end of the power cable.

EQUIPMENT SETUP & OPERATION:

- (1) Hang the DSD-6E DIVER SIGNALING DEVICE Underwater by the Suspension rope at the desired water depth (approximately 15 feet).
- (2) To turn on the Diver Signaling Device place the toggleRotary switch in the UP position/ "YELP". To turn it off switch the Toggle/Rotary switch to the "OFF" Position and the YELP sound will stop.
- (3) To turn on the Diver Signaling Device place the Toggle/Rotary Switch in the down positio/"BELL". To turn it off switch the Toggle/Rotary switch to the "OFF" Position and the BELL sound will stop.
- (4) When using the Diver Signaling Device in water with strong currents; you can attach lead weights to the PVC Pin on the bottom of the DSD-6E with rope.

WARNING: DO NOT OPERATE THE DIVER SIGNALING DEVICE OUT OF THE WATER FOR MORE THAN TWO (2) MINUTES CONTINUOUSLY TO PREVENT OVER HEATING OF THE SELF CONTAINED SIREN ELECTRONICS.

- (5) To change the two 9 volt batteries unscrew the four screws on The top cover. Lift off the cover and then unplug the batteries and replace with RADIO SHACK 9 Volt 6LF22 Alkaline Battery, DURACELL MN1604B2 9 Volt Alkaline Battery, or equivalent. Install cover and tighten four screws. Test unit before diving operations for proper operation.

- (6) If you have any problems setting up or operating the DSD-6E Diver Signaling Device contact OEE for assistance at:
O.E. ENTERPRISES (330) 896-3644

EQUIPMENT MAINTENANCE:

- (1) Rinse the Diver Signaling Device off with freshwater after removing it from the seawater to rinse off the salt and chlorine. Dry the Diver Signaling Device off with a dry towel and store the Diver Signaling Device in a secure place to prevent theft.

CAUTION: BE SURE TO PROTECT THE DIVER SIGNALING DEVICE'S SPEAKER FACES FROM DAMAGE WHEN STOWING THE DIVER SIGNALING DEVICE AFTER USE. DO NOT LAY THE DIVER SIGNALING DEVICE DOWN WITH THE SPEAKER FACE RESTING ON SHARP OBJECTS.

NOTE: A "DIVER SIGNALING DEVICE" IS NOT INTENDED TO BE A LIFE SAVING DEVICE BUT A MEANS OF COMMUNICATING TO THE DIVER THAT THERE IS A PROBLEM ON THE DIVEBOAT OR AT THE DIVE SITE AND THE DIVER MUST RETURN TO THE DIVEBOAT OR SURFACE WITHOUT DELAY.

WARNING: DO NOT OPERATE THE DSD-6E DIVER SIGNALING DEVICE FOR MORE THAN 5 MINUTES CONTINUOUSLY TO PREVENT OVERHEATING OF THE SELF CONTAINED ELECTRONICS.

BATTERY PACK REPLACEMENT:

- (1) Cut insulation back on underwater speaker cable 6 inches.
- (2) Install cable thru strain relief nut and SEALCON Gland seal.
- (3) Connect White Wire in cable to white wire inside Battery Case. Install shrink tubing, solder wires and seal shrink tubing with heat gun.
- (4) Connect Black Wire in cable to black wire inside Battery Case. Install shrink tubing, solder wires and seal shrink tubing with heat gun.
- (5) Attach Green Wire in cable (if present) to green wire in Battery Case. Install shrink tubing, solder wires and seal shrink tubing with heat gun.
- (6) Tighten Gland Seal Strain Relief Nut tight on cable so water will not Leak.
- (7) Test operation of diver signaling device.
- (8) Remove BELL Decal if DSD-6E is not set up for BELL SOUND.

NOTES or COMMENTS:



DSD-6E With ROTARY SWITCH



DSD-6E Acoustic Diver Signaling Device With Toggle Switch.



**OCEANERS 18 VDC
External Battery Pack Assembly**

DSD-6E Acoustic Diver Signaling Device



**DSD-6E with ROTARY SWITCH
to replace the Toggle Switch**

O.E. ENTERPRISES
(OCEAN ENGINEERING ENTERPRISES)
1638 Cottonwood Drive
North Canton, Ohio 44720-1102 USA
TELEPHONE: (330) 896-3644
FAX: (330) 896-8816

LIMITED WARRANTY

OCEAN ENGINEERING ENTERPRISES warrants the DSD-6E ACOUSTIC DIVER SIGNALING DEVICE to the ORIGINAL PURCHASER to be free from defects in original workmanship or materials, under NORMAL USE and SERVICE for a period of (1) ONE YEAR from the Date of Purchase. If at any time during the warranty period the product is found defective **OCEAN ENGINEERING ENTERPRISES** shall repair or replace the defective item at our option and within a reasonable period of time. A copy of the Original Bill of Sale must accompany the claim. ONE Year Warranty on PARTS and ONE Year Warranty on LABOR.

The following are ware items and will not be considered for claim: Gland Seals, "O" Rings, CABLE, or other conditions resulting from misuse, negligence, alteration, accident, FLOODING, abuse, failure to following operating instructions, or unauthorized repair.

The expressed warranty set forth herein is in lieu of all other warranties expressed or implied, including without limitation any warranties of merchantability of fitness for a particular purpose, and all such warranties are hereby disclaimed and excluded by the manufacturer. Repair or replacement of defective items as provided above is the sole and exclusive remedy provided hereunder. **OCEAN ENGINEERING ENTERPRISES** will not be liable for any further loss, damages or expenses, including incidental or consequential damages, directly or indirectly arising from the sale or use of this product. All products subject to this warranty shall be returned to the manufacturer **PREPAID**.

Warranties related to custom built products, sub-assemblies and options are as outlined above but are limited to 90 days. Direct all inquires relating to this product to:

O.E. ENTERPRISES
ATTN: WARRANTY DEPARTMENT
1638 Cottonwood Drive
North Canton, Ohio
44720-1102
USA

TEL: (330) 896-3644
FAX: (330) 896-8816