

## AMR-DS-1 DIVERS SCAN

### DESCRIPTION

The Amron International Divers Scan Personal Portable Sounder is a rugged, reliable personal sounder that lets you accomplish a variety of tasks with a simple push of the button. Need to check the water depth before going in? Hold the Divers Scan underwater, point at the bottom, and push the button. When you release the button the sounder will hold your last reading for 10 seconds so that you can comfortably look at it. While diving, you may want to know how much further down the bottom is from where you are, simply push the button and check!

Amron's Divers Scan Personal Sounder is extremely reliable and so easy to use. It features an automatic shut-off so you don't have to worry about draining your battery. Whether you want to measure the distance or check the water depth, you can be sure that this personal sounder will come in handy dive after dive.

### OVERVIEW

#### Features:

- Rugged, reliable personal sounder that quickly checks water depth
- Simple push button operation
- Lighted digital display
- Holds reading for 10 seconds for easy view ability
- Automatic shut-off saves battery life
- Measures in feet or meters

#### Specifications:

- Range: 2 ft. to 200 ft.
- Depth Rating: 150 ft.
- Battery: 9V Alkaline
- Battery Life: 500 Soundings
- Display: Backlit LCD
- Frequency: 200 kHz
- Beam: 24°
- Color: Nautical Yellow
- Weight: 11 oz.
- Length: 7-3/4 in.
- Diameter: 1-5/8 in.



**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

## AMR-DS-1 DIVERS SCAN

### USER INSTRUCTIONS

#### Unit Operation

Hold the unit in your hand as you would a flashlight and simply slide the switch forward. By doing this, the night light for the digital display will come on and three horizontal bars will appear in the display. This means the unit is on and searching for a reading.

Place the transducer end of the unit in the water; make sure you are pointing straight towards your target (for example, straight down towards the bottom). The AMR-DS-1 will continue to monitor the depth as long as the switch is held in the forward position. When the switch is released, the depth reading will stay locked on the display for about 10 seconds, and then it will automatically shut itself off. Remember to release the switch before you lift the unit up to read. Failure to hold the transducer end of the AMR-DS-1 straight or perpendicular to the target will result in distance or depth reading slightly longer or deeper than it really is. In addition, taking readings in or over weeds or schools of fish can result in incorrect or erratic readings.

#### Installing the Battery

If the battery becomes weak, the display's backlight will begin to flash. The Model AMR-DS-1 requires one 9 Volt Alkaline transistor battery. It installs in the end cap that is opposite the switch and display. To install a battery, the end cap must be unscrewed and removed. Slide the battery into the body cavity then attach the battery snap to the battery. It will only fit one way, so if it doesn't fit easily you may have to reverse the battery. Replace the cap and screw it down into the unit. Tighten firmly; making sure the O-ring is not out of place.

The end cap, which is closest to the digital read out, is the transducer end. This end of the AMR-DS-1 is rarely removed; however, it should be tested for tightness occasionally, to ensure that it is waterproof.

#### Maintenance

Take care of your equipment. Protect it, handle it with care, do not throw it around, set it down, and don't just drop it. After every dive or use, rinse with fresh water, dry, and store in a cool dry place.

#### Applications

**Portable Uses** - Turn unit on and touch the transducer end into water, perpendicular to the bottom. Hold the switch forward until the unit locks onto a reading. Release the switch and then raise the unit to read the depth. If additional readings are desired, repeat the procedure.

**Scuba Diving** - For your safety, make certain that the AMR-DS-1 is operating correctly by testing in shallow water. For deeper diving, tighten each end cap snugly against its rubber seal. Watch the rubber seals to make certain there are no bubbles escaping around the seals. If a small stream of bubbles appears, tighten that particular end cap until the stream of bubbles stops.

**Ice Fishing** - The AMR-DS-1 will read through ice as long as it is fairly clear and free from air bubbles, white ice. Clear away the snow and look for clear hard ice, then set the transducer end of the AMR-DS-1 onto the ice. Push the switch forward. Using some water, pour a small amount directly onto the area where the AMR-DS-1 contacts the ice. Hold the switch forward until the unit locks onto a reading. If the conditions are not ideal you may need to use more water and several readings should be taken to verify the proper depth. **Note** - Cold temperature is very problematic on batteries. Be sure you keep the AMR-DS-1 warm so it will be ready when you need it.

#### Instructions to convert from feet to meters

Start by unscrewing the "transducer end" of the AMR-DS-1—the part you would touch to the water to get a depth reading.

Looking inside the barrel of the handle you will see the circuit board with the four DIP switches exposed. You will look for DIP switch #2, and push it up to be in line with the other switches. You are now in metric, the DIP switches should look like the photo below. This is the proper setting for metric mode, reset switch #2 by pushing it down and you are back to reading feet.

Re-assemble making sure you do not crimp the wires and you are done.

No special hardware or tools are required, but a small flat bladed screwdriver is suitable to set the switch.

