

The Navigator Doppler Navigation System



Navigator with Doppler System

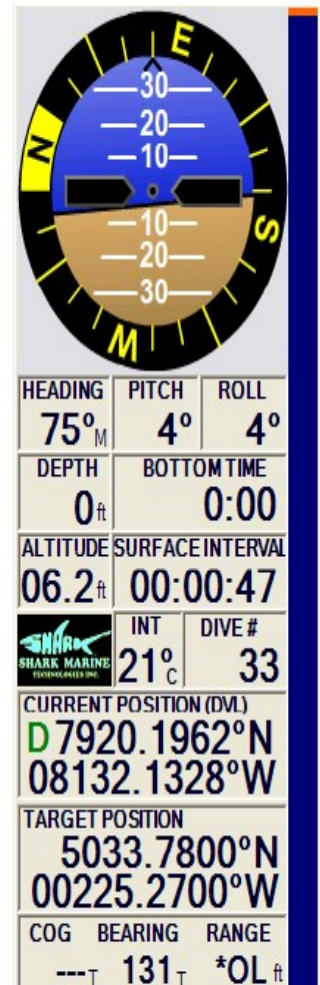
The Doppler Navigator System is a revolutionary geodetic positioning system that doesn't require a satellite fix or external transceivers.

The DNS is an add-on device for the Navigator that is designed to take over positioning once a GPS Receiver or LBL system loses validity, but the DNS can also be used on the Navigator without either of these other systems in place.

When connected to the Navigator, DiveLog, which is always running on the Navigator, performs the processing of the Doppler velocity data. DiveLog will use the data from the Doppler along with the built in compass to update the current position based on the Navigator's movement over the bottom.

When the DNS is operating, the altitude of the Navigator is also displayed. This activates a visual indication of the diver's vertical position in the water column since both depth and altitude are known. This "visual indicator" is displayed as the blue bar on the right hand side of the DiveLog window where the position of the diver is noted by the red indicator line.

Product Number - NAVDPL



DiveLog window with water-column indicator

DNS Specifications:

Power requirement	9 VDC to 36 VDC, up to 3 Amps (supplied by the Navigator)
DNS housing dimensions	8.46" x 6.5" x 5.74" (21.5 cm x 16.5 cm x 14.6)
Dry Weight	7 lbs (3.2 kg)
Wet Weight	~0 lbs (~0 kg)
Housing Material	Delrin
Transducer Assembly Diameter	4.96" (12.6 cm)
Transducer Type	4 Beam Convex
Transducer Beam Angle	22 degrees
Transducer Frequency	600 kHz
Transducer Accuracy	0.2% +/- 1 mm/s
Minimum Altitude	12" (0.3 metres)
Maximum Altitude	360 feet (110 metres)
Maximum Velocity	Maximum Velocity
Ping Rate	1 per second
Heading Accuracy	+/-1 ° level or, +/-3 ° when pitch and roll are within +/- 30 °