

Datasheet

Vostok

underwater navigation system

Vostok-ACS acoustic compass



DESCRIPTION:

The acoustic compass VOSTOK-ACS is a small-sized wearable directing-finding antenna (USBL system).

A unique device that allows the diver to determine the direction and distance to the VOSTOK-BASE homing beacon, thereby solving the diver's homing task.

The ideology of passive reception allows simultaneous operation of an unlimited number of devices in the same water area with a single homing beacon.

KEY FEATURES:

- Rugged, durable and easily noticeable plastic housing
- Simultaneous positioning for an unlimited number of VOSTOK-ACS devices
- Acoustic range up to 8000 m
- Reliable and noise-immune technology of digital broadband acoustic communication
- Long battery life up to 8 hours
- Wireless charger

Vostok

underwater navigation system
Vostok-ACS acoustic compass



TECHNICAL SPECIFICATION:

DIMENSIONS	121x35x56 mm
WEIGHT (dry)	0.35 kg
ACOUSTIC RANGE (energetic)	8000 m
FREQUENCY BAND	5-15 kHz
BATTERY LIFE	Up to 8 hrs
VELOCITY OF THE RECEIVER RELATIVE TO THE BUOYS	+/- 1.8 m/s
WORKING TEMPERATURE RANGE	-5..50 °C
BUILT-IN BATTERY TYPE	Li-Po
DISTANCE RESOLUTION	0.3 m
NOMINAL RANGING ACCURACY ¹	+/- 1.5 m
NOMINAL DEPTH ACCURACY	0.1 m
NOMINAL TEMPERATURE ACCURACY²	0.1 °C
NOMINAL HORIZONTAL ANGLE ACCURACY ³	+/- 5°

1. Within 2 hours from the synchronization time
2. Depends on the salinity values properly installed
3. Obtained in laboratory conditions without multipath effect