

Datasheet

RedWave

multiuser underwater navigation

RedBASE device



DESCRIPTION:

RedBASE buoy as a part of RedWave system implements long navigation base. It is made in the form of a plastic cylinder with a length of 600 mm and a diameter of 150 mm with a hydroacoustic antenna on the wire RedGTR are the series of wireless underwater digital communications modems that provide short code messages exchange in a network organized between such devices.

RedBASE has positive buoyancy and a load-carrying lug for attaching an anchor.

RedBASE is equipped with modern high-performance navigation receiver GPS/GLONASS and innovative navigation acoustic transmitter RedWave.

KEY FEATURES:

- High-performance GPS/GLONASS receiver
- Durable and easily visible plastic housing
- Simultaneous positioning for an unlimited number of RedNODE/RedNAV receivers
- Acoustic range up to 3000 m
- Reliable and noise-immune technology of digital broadband acoustic communication
- Long battery life up to 24 hours

RedWave

multiuser underwater navigation

RedBASE device



TECHNICAL SPECIFICATION:

DIMENSIONS	597xØ146 mm
WEIGHT (dry)	4.8 kg
ACOUSTIC RANGE (energetic)	3000 m
FREQUENCY BAND	10-30 kHz
BATTERY LIFE	Up to 24 hrs
CHARGING TIME (220 V 50-60 Hz)	10 hrs
VELOCITY OF THE RECEIVER RELATIVE TO THE BUOYS	+/- 1.8 m/s
WORKING TEMPERATURE RANGE	-5..50 °C
COORDINATE SYSTEM	WGS-84
BUILT-IN BATTERY TYPE	Lead-acid
ACOUSTIC TRANSMITTER CABLE LENGTH	1.1 m