



RHO

Elektronik GmbH

THETA

High-Efficiency Locator Beacon

RT-B77 HELB



Output Power
2 Watts

The RT-B77 "HELB" is currently the most advanced and most powerful personal locator beacon (PLB) available on the market for man overboard (MOB) emergencies. The RT-B77 is designed for automatic activation upon contact with water or inflation of the wearer's life jacket and can also be activated manually. This PLB also features a second frequency that can be used for testing or training purposes.

Transmission of a dedicated ID and simple control of system and maintenance data by means of an IRDA interface are important benefits for operators of larger fleets. Autotest functions combine with status reports that are announced by the system's speaker to guarantee high availability. Special models are available for offshore applications (ATEX) and professional divers.

Features

- Very high output power
- Designed for use under adverse conditions
- Extremely compact, lightweight design
- High-efficiency RF amplifier technology
- Water resistant up to 50 m for diving applications
- Automatic activation upon contact with water (can be disabled)
- Beacon ID is programmable and will be transmitted
- Functional and operating status by LED and built-in speaker
- Voice output at RF and speaker
- PLL design for free selection of training frequency
- Microprocessor controlled power management for long battery life

Life jacket antenna



Technical data

Operating frequency:	121.500 MHz (VHF), 243.000 MHz (UHF) optionally available
Training frequency:	Preselectable (in 25 kHz increments between 120.000 and 125.000 MHz)
Frequency precision:	Better than ± 500 Hz
Output power:	2 W*
Modulation:	A2X and ASK (software definable), FSK (on request)
Operating temperature:	-20 °C to +60 °C
Ingress protection:	Water resistant up to 5 bar / 50 m
Battery type:	2 x 9 V block LiMnO ₂
Battery life:	6 h to 48 h*
Interfaces:	IRDA and RS-232
Antenna:	260 mm monopole antenna, 90° monopole life jacket antenna
Dimensions:	103 x 75 x 27 mm
Weight:	230 g with antenna

* As a function of microprocessor controlled power management.

All product specifications subject to change without notice.

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