



RHO

Elektronik GmbH

THETA

Emergency Receiver

# RT-100

**“Man overboard!”**  
Every emergency is discovered.



The RT-100 Emergency Receiver monitors the 121.5 MHz international emergency frequency and provides an acoustic alarm if a signal is received on this frequency. At the same time, a relay is activated that can be used to trigger external alarm devices. When the “selective squelch” function is enabled, an alarm is triggered only if the signal is received from an emergency transmitter

(ELT, PLB or EPIRB). This function eliminates the possibility of false alarms from interference or from aircraft misusing this frequency for voice communication.

## Features

- Continuous self-diagnosis with error indication
- Normal mode (receiver mode) and PLB/ELT mode (Alarms are triggered in this mode only by PLB/ELT code signals with a typical downsweep. An acoustic beep is repeated 25 times when an alarm is triggered.)
- Second frequency for testing
- Adjustable squelch level
- 16-step display of field strength of incoming signal
- Built-in speaker for alarm and acoustic signals
- Audio out for external speaker
- Relay contact to activate external devices in the event of an alarm

## Technical data

Reception frequencies:	121.500 MHz (channel 1: distress frequency) 121.650 MHz (channel 2: test frequency)
Operating temperature:	-20 °C to +60 °C
Ingress protection:	IP 65 (dust-proof and splash-proof)
Sensitivity:	< 0.5 µV at antenna input
Audio out:	Max. 8 V <sub>ss</sub> (speaker > 8 Ω)
Relay contact:	I <sub>switch</sub> = 0.5 A (max.), P <sub>switch</sub> = 10 W (max.) ohm resistive load
Power consumption:	Standby = 80 mA, max. 400 mA (alarm + external speaker)
Operating voltage:	12 to 24 V DC (±20%)
Dimensions:	85 mm x 115 mm x 35 mm
Weight:	350 g

All product specifications subject to change without notice.

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