

AIS SART (AIS + DSC + HOMING)

TECHNICAL DATASHEET



easyRESCUE-PRO3 (Ao4003)



EXCELLENCE IN RADIO TECHNOLOGIES
Safety • Navigation • Tracking

Standards

AIS / DSC Standards	IEC 61097-14
	EN 303132 V2.1.0:202
	IEC 63269 Ed. 1.0:2022
	EN 301025-2,-3: V1.5.1
Environmental	IEC 60945
Product Safety	ITU-RM.1371-5
IMO Resolution	MSC.246(83)
GPS Performance	IEC 61108-1

AIS Transmitter

Tx Frequency	AIS 1: 161.975 MHz; AIS 2: 162.025 MHz
Tx Output Power	2 Watt (radiated)
AIS messages	Msg.1 (UID, GNSS position, SOG, COG, Nav. State)
	Msg. 14 (SART ACTIVE or SART TEST)
VHF Antenna	vertically polarized

DSC

DSC operation	"closed loop" and "open loop"
Frequencies	156.525 MHz
Radiated transmit power	DSC: $\geq 0,5$ W
Sent Information (DSC)	Unit ID, Position (Lat./Long.),
	TEST CALL & ROUTINE CALL (Test)
	DISTRESS RELAY (Alarm)

Homing

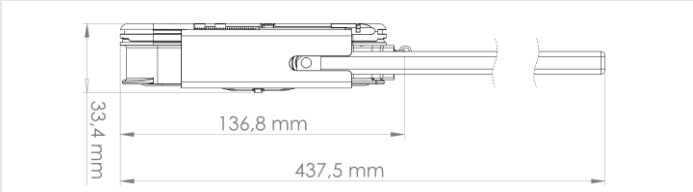
Transmit Power	≤ 50 mW (PEP)
Frequency	121.5 MHz

GNSS Receiver

Receiving Channels	99 Channel Receiver with integrated antenna
Receiver	Up to 4 concurrent GNSS constellations
Supported GNSS	GPS, Galileo, GLONASS, BeiDou

Dimensions/Drawings

Weight	300 g
Dimensions (LxWxH):	125 x 68 x 30 mm



Approvals

CE	FCC: Zo5WDC-Ao40
IC: 11269A-RESCUE	SOLAS (PTL-MED-B-25-110730)

Environmental

Operating Temperature	-20 °C to + 55 °C
Storage Temperature	-30°C to +70°C
Waterproof Rating	IP68
Immersion Depth	10 m
Buoyancy	yes
Compass Safe Distance	≥ 0.3 m

Interface

Display	3 colored LEDs, 1 white flash LED
Controls	2 buttons; 1 magnetic switch
Configuration	Bluetooth® LE

Battery (build-in)

Battery Type	Industrial pack, 4 Lithium Cells (CR123A) à 3V
Operating time	≥ 96 h AIS only,
	≥ 48 h in common operation of
	AIS + DSC + Homing
Battery lifetime	≥ 5 years

Activation Method

Activation Mode	Manual and automatic (water contact/rip cord)
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