

AIS SART (AIS + DSC)

TECHNICAL DATASHEET



easyRESCUE-PRO(BT) (Ao4o-PRO(BT))



EXCELLENCE IN RADIO TECHNOLOGIES
Safety • Navigation • Tracking

Standards

AIS / DSC Standards	IEC 61097-14; ITU-RM.1371-5
	EN 303132 V2.1.0:202
	IEC 63269 Ed. 1.0:2022
	EN 301025-2,-3: V1.5.1
Environmental	IEC 60945
Product Safety	IEC 60950-1
IMO Resolution	MSC.246(83)
GNSS Performance	IEC 61108-1

AIS Transmitter

Tx Frequency	AIS 1: 161.975 MHz; AIS 2: 162.025 MHz
Tx Output Power	AIS: > 500 mW EIRP, nominal value: 2 W EIRP, no upper limit defined!
AIS messages	Msg.1: UID, GNSS position, SOG, COG, Nav. State Msg. 14: SART ACTIVE or SART TEST
VHF Antenna	vertically polarized

DSC Transceiver

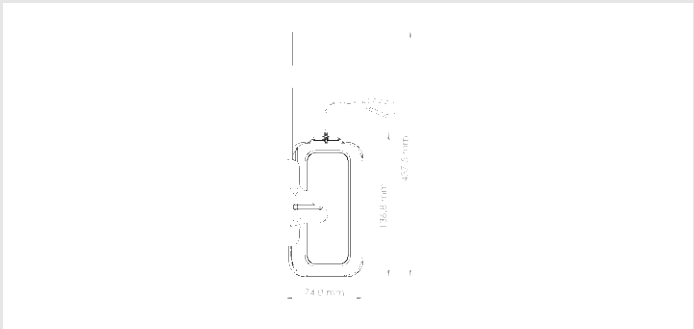
DSC operation	"closed loop" and "open loop"
Frequencies	156.525 MHz
Radiated transmit power	DSC min.: (>100 mW ERP); = 165 mW EIRP; DSC max.: (600 mW ERP); = 1 W EIRP
Sent Information (DSC)	Unit ID, GNSS position, UTC, MOB TEST CALL & ROUTINE CALL (Test) DISTRESS RELAY (Alarm)

GNSS

Receiving Channels	72 Channel Receiver with integrated antenna
Receiver	Up to 4 concurrent GNSS constellations
Supported GNSS	GPS, Galileo, GLONASS, BeiDou

Dimensions/Drawings

Weight	250 g
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Approvals

CE	FCC: Zo5WDC-Ao4o
EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008); EN 61097-14:2010; EN 301025-2,-3: V1.5.1 (easyRESCUE-PRO family only); RTCM 11901.1 compliant (easyRESCUE-PRO family only); IEC 63269 Ed. 1.0:2022 compliant (easyRESCUE-PRO family only); EN 303132 V2.1.0:2022; compliant (easyRESCUE-PRO family only); EN 18031-1:2024 (article 3.3 d)	

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=>15lm
Controls	2 buttons; 1 magnetic switch
Configuration	Bluetooth® LE

Battery

Battery Type	Industrial pack, 4 Lithium Cells (CR123A) à 3V
Operating time	≥ 96h AIS only, @-20°C ≥ 48h in common operation of AIS & DSC @20°C
Battery lifetime	≥ 5 years

Activation Method

Activation Mode	Manual and automatic (water and contact/rip cord)
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Dimensions (LxWxH):	137 x 74 x 33 mm
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