

AIS SAT-MOB (AIS + DSC + IRIDIUM)

TECHNICAL DATASHEET



easyRESCUE-SAT-MOB (Ao4022)



EXCELLENCE IN RADIO TECHNOLOGIES
Safety • Navigation • Tracking

Standards

Tested against

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, GPS position, SOG, COG, Nav. Status) Msg. 14 (MOB ACTIVE or MOB TEST)
VHF Antenna	Vertically polarized

Iridium

Frequencies	1616-1626 MHz
Iridium® Network	Iridium® 9603 SBD Modem
Coverage	Global Coverage
Latency	< 1 Minute
Emergency message	Distress Type, Fix Time, MSG Type, LAT, LONG, Position Type, Course, Speed, ID, Distress Time, Reliability Flag
Cycle time	every 5 min. until the sat. feedback is received
Receiver of emergency messa	MRCC (selection by geo-location) Own selection (IP, email, IMEI Iridium®)

DSC Transceiver

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

Dimensions/Drawings

Weight	275 g
Dimensions (LxWxH):	280 x 70 x 35 mm

Approvals

CE

Environmental

Operating Temperature	-20 °C to +60 °C
Storage Temperature	-30°C to +85°C
Waterproof Rating	IP68
Immersion Depth	10 m
Buoyancy	yes

Interface

Display	6 LEDs
Controls	3 buttons; 1 slider
Configuration	Bluetooth® LE

Battery (build-in)

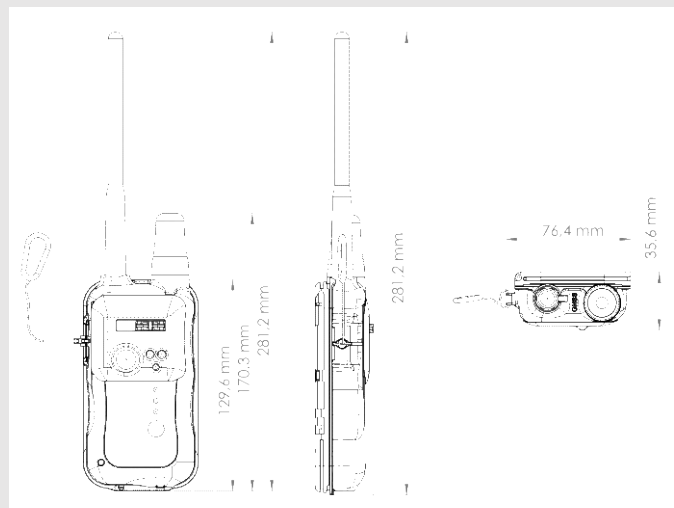
Battery Type	Industrial pack, 4 Lithium Cells (CR123A) à 3V
Operating time	≥ 96h AIS only ≥ 48h @ -20°C AIS + DSC + iridium
Battery lifetime	≥ 5 years

Arm-Disarm / Activation Method

Activation	Manual and automatic (water contact/rip cord)
Arm-Disarm function	Slider to disable buttons + water activation

GNSS Receiver

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



As of 03/2026 | Subject to change