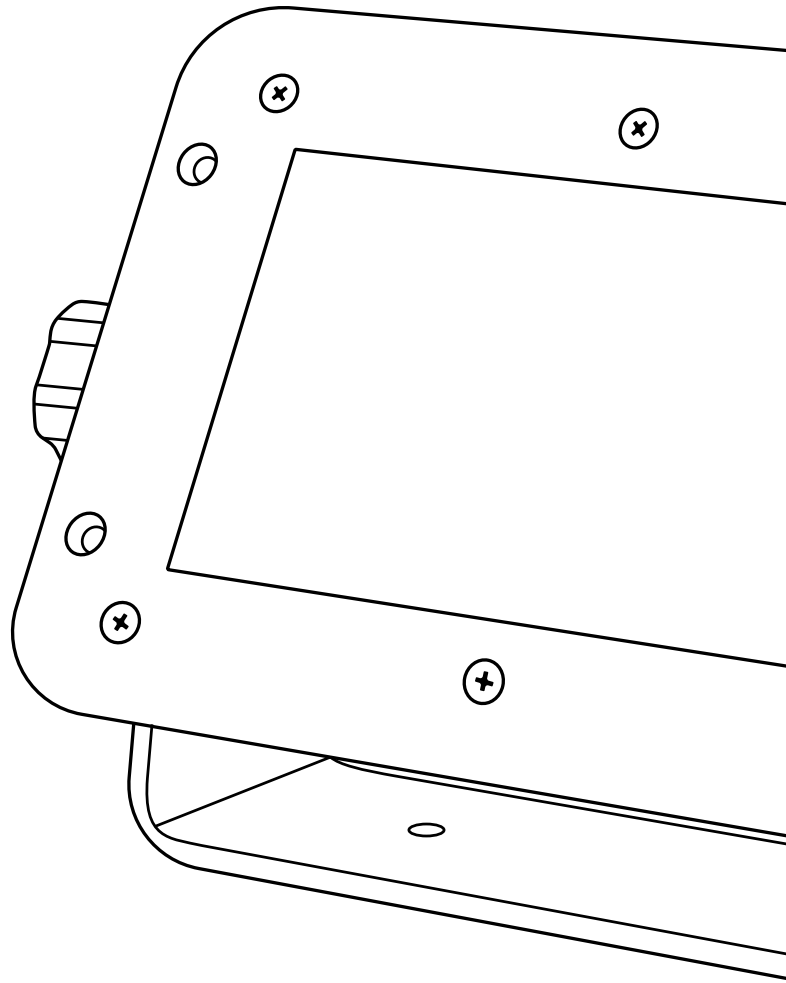




SARFINDER

TECHNICAL DATA SHEET



IDENTIFICATION

PRODUCT NAME	sMRT SARfinder
MODEL NUMBER	MOA-20320
MANUFACTURERS NAME	Marine Rescue Technologies Ltd
ADDRESS	Wescom Group, Unit J1, Anlaby Trade Park, Springfield Way, Anlaby, Hull, HU10 6RJ, United Kingdom
TELEPHONE NUMBER	+44 (0)1482 679 300
EMAIL ADDRESS	smt@wescom-group.com
DATE OF ISSUE	April 2025
ISSUE NUMBER	1
DESCRIPTION	The sMRT SARfinder continuously monitors the 121.5 MHz distress frequency and automatically alerts in the event of a Man Overboard incident. When an activated 121.5 MHz unit is detected, an audible alarm will sound, and a direction-bearing compass will display, enabling a swift and efficient recovery of the casualty.



BATTERY SHIPPING INFORMATION: UN3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT IN COMPLIANCE WITH IATA PI: 970 SECTION II.



CONTROL BOX	
CONTROL BOX DIMENSIONS	175 x 120 x 65mm — Aluminium Box (excluding antenna & connectors)
CONTROL BOX WEIGHT	1200gms
MOUNTING OPTIONS SURFACE	210mm x 146mm (Opt 1), Bracket 260mm (Opt 2) weight 1000gms
BEARING DETECTION METHOD	Triangular phase delta
BEARING RESOLUTION ACCURACY	±5° @ 10 dBuV/m maximum
ANTENNA	
ANTENNA BASE DIMENSIONS	550mm (H) x 350mm (W) — PVC Plastic
ANTENNA BASE WEIGHT	1100gms
ANTENNA POLE MOUNTING BKT	50mm Internal Dial
ANTENNA GAIN	1.4 dBi nominal
ANTENNA COAXIAL CABLE	Impedance: 75 Ω Capacitance 60pF / m Attenuation / 100 m: 20 dB @ 121.5 MHz Diameter: 7.2 mm Operating temperature: -20°C + 70°C Coaxial Type : Triple RG179B/U
GENERAL	
OPERATING TEMPERATURE RANGE	-20°C + 55°C (Operational)
BANDWIDTH	25 KHz
MODULATION	AM for audio and ΦM for direction finding
PORTS	DC12V Power Cable (1m) Antenna Cable (up to 30m)
SENSITIVITY	3 dBuV/m (threshold of target bearing resolution)
FREQUENCIES	121.5 MHz (default), 121.65 MHz (Test 1), VHF programmable (Test 2)
CRITERIA OF EIT / BEACON RECOGNITION	Audible AM down-swept tone (compliant to ITU-R M.690-3)
AUDIO OUTPUT	¼" Jack socket for 15W, 8 Ohm external speaker
RELAY CONTACT	Floating, carrying capacity max. 2A @ 250 VAC maximum.
CURRENT CONSUMPTION	Off = 7 mA (typical) Standby = 500 mA (typical) Tracking = 550mA Alarming = 1000 mA (max, no external speaker) Alarming = 2000 mA (max, 8Ω external speaker)
OPERATING VOLTAGE	12V DC
IN LINE FUSE	3.15 A
DISPLAY	7" TFT LCD display
APPROVALS	
EMC	ETSI EN 301 843-1 V2.3.1 (draft 2005-01) EN 60945 (2002) clauses 9 & 10
SAFETY	EN 62368-1:2020+A11:2020