

*Keeping You
Safe and Sound*



Product Overview

The AMEC TB-520 is a CE approved AIS Man Overboard Beacon. It greatly enhances the chance of MOB retrieval by alerting other AIS equipped vessels within VHF range.

In emergency situations, the beacon can be activated either automatically by water sensor or manually and send out alert messages, GPS position and a unique ID. Its high performance GPS receiver enables the beacon quickly obtaining GPS coordinates.

Built with state-of-the-art technology, TB-520 is rugged and lightweight, easy to use and totally reliable to keep your journey safe and sound.

Key Features



Provide accurate GPS position information to assist fast locating.



High beam LED sending SOS message for clear indications.



Compatible with AIS equipments, e.g. chartplotters.



Typical 72 hours operating time.



Support automatic (water sensor) or manual activation.



5 year battery life.



Small and lightweight design for easy lifejacket fitting.

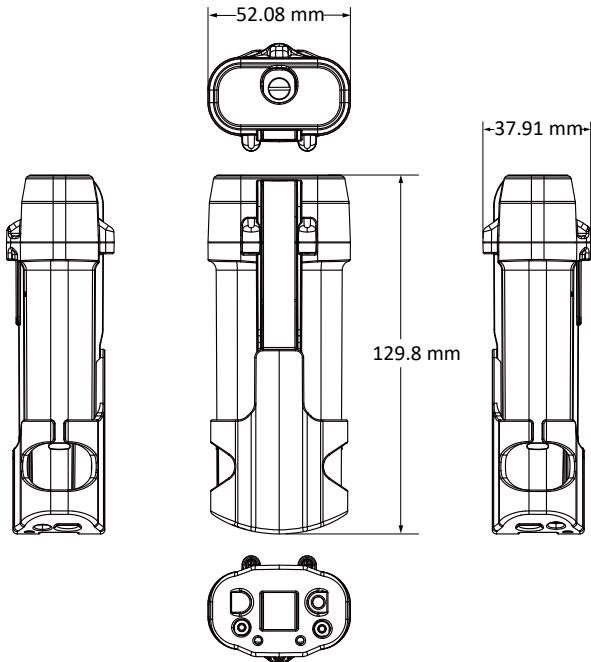


IP68 waterproof and 50m immersion depth.

Applications



DIMENSIONS



EQUIPMENTS IN THE BOX

- TB-520 AIS MOB x 1
- Carrying pouch x 1
- User guide x 1
- Oral clip x 1
- Test tab x 1



SPECIFICATIONS

► APPLICABLE STANDARDS

IEC 60945: 2002 + Cd.1: 2008, Clauses 9, 10	
IEC 61108-1: 2003	EN 50383: 2010
EN 303 098 V2.2.1	EN 50385: 2002
EN 62368-1: 2020 + A11: 2020	EN 62479: 2010
	EN 303 413 V1.2.1

► VHF PERFORMANCE

Frequency	AIS 1, 161.975 MHz
	AIS 2, 162.025 MHz
Data Rate	9,600 bps
Tx Power	2 W (1 W EIRP)
Bandwidth	25 KHz
Modulation	GMSK
Range	4 nm typical with receiver antenna > 5 m above sea level
AIS Message Type	Message 1 (UID, GPS position, SOG, COG) Message 14 (MOB ACTIVE or MOB TEST)

► GPS RECEIVER

Receiving Channels	72
Frequency	L1, 1575.42 MHz
Tracking Sensitivity	(-)163 dBm
Reacquisition	(-)159 dBm
Position Update	Every minute
Position Accuracy	< 2.0 m SBAS < 2.5 m Autonomous

► ACTIVATION METHOD

Manual activating or automatic activating with water sensor by immersion

► LED INDICATION

Battery	Green/red
GPS Positioning	Green/red
SOS LED	High beam, > 35 lm

► BATTERY

Type	Primary Lithium (not rechargeable)
Operating Time	72 hours, typical
Storage (battery life)	5 years, replacement due after emergency use

► ENVIRONMENTAL

Operating Temperature	-20 °C ~ 55 °C
Storage Temperature	-30 °C ~ 70 °C
Waterproof	IP68
Immersion depth (optional)	50 m
Compass Safe Distance	0.8 m

► PHYSICAL

Size	129 x 52 x 40 mm (L*W*D)
Weight	160 g (main unit only)

Note: Specifications are subject to change without prior notice.



Alltek Marine Electronics Corporation

14F-2, No. 237, Sec. 1, Datong Road, Xizhi District,
New Taipei City, 22161, Taiwan
Tel: +886 2 8691 8568 Fax: +886 2 8691 9569

Sales Contact

For more information, please contact your local representative or Alltek Marine at

sales@alltekmarine.com

www.alltekmarine.com

Distributor/Dealer