ICOM

MA-500TR



: 12.7km / 310° Length x Breadth : 164m x 26m Draught: 5m

SHIP D
Ship type
: Pleasure Craft
Status: Underway
Speed / Course
: 8.2kn / 115°
Length + Breadth
: 20m x 6m
Draught: 0m

Ship type: Other Status: Underwa

Length x Breadth c 181m x 28m

SHIP P Ships type argo

9 9 2679 Lamath a Breadth

/-

RNG N-UP BRG

Snm

SELECT



BRILL O

Real-time Vessel Traffic Information.

All the Advantages of AIS Transponder in an Easy to Use, Compact Design

CPA and **TCPA** for

equipment installed on

the deck or tower, the

collision alarm function

will alerts you even when

you are away from the

collision-risk management

When a vessel comes into the CPA and TCPA range,

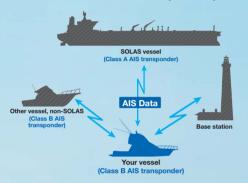
the vessel icon blinks on the Plotter display and emits

a beep sound. When connected to external audio

On the deck

What is an AIS transponder?

An AIS transponder on your boat automatically receives information broadcast by other AIS-equipped Non-SOLAS vessels such as pleasure craft, workvessels and base stations, all while your own vessel's static and dynamic information is being transmitted. AIS signals may reach where radar cannot, showing AIS-equipped vessels that might otherwise be hidden, such as on the other side of an island or behind a larger vessel. SOLAS commercial vessels are already required to carry a Class A AIS transponder, so your position will be known by nearby large vessels. The MA-500TR increases your safety at sea.



Class B AIS transponder

The MA-500TR is a Class B AIS transponder for boat and small vessels. Your vessels information will automatically be transmitted at fixed intervals or under base station control. The MA-500TR receives dual AIS channels (Ch. 87B and Ch. 88B) simultaneously and receives both Class A and Class B AIS

Transmitted information by MA-500TR is

- MMSI code
- Vessel name
- Call sign
- Type of ship
- GPS antenna position
- Ship's position
- SOG (Speed over ground)
- COG (Course over ground)
- UTC date and time
- GPS antenna type
- PA (Position Accuracy)

Simple operation

The Plotter display looks like a marine radar display. North-up, course-up and range zoom from 0.125 NM to 24 NM are supported. The Target list display shows all detected AIS equipped vessels and targets. The Danger list display shows a list of vessels that are within 6 NM CPA and 60 minutes TCPA from your vessel. The Danger list can be sorted by CPA or TCPA order. In addition to these display types, the Detail screen shows various information about the selected AIS target.

AIS transponder. Target list display Select a target vessel keys and then push the

Individual DSC call*

it's easy to make an individual DSC call. Select a viding 3-lines of NMEA input/output on the rear vessel using the MA-500TR's cursor keys and then required to input an MMSI number manually.





compatible Icom transceivers such as IC-M604A, M504A M424, M423, M400BB, M323 or M412.

100 Waypoints memory

Up to 100 waypoints can be stored on the waypoint list. The "MOB" button allows you to set a waypoint on your current position instantly.

Safety-related message

When the MA-500TR receives a safety-related message from a Class A AIS transponder, the message icon appears on the Plotter display. Up to 20 received DSC messages are automatically stored in the log memory.

3-line NMEA input/output

When connected to a compatible Icom VHF radio, The MA-500TR has 15-pin D-SUB connector propanel. The supplied NMEA connector cable simplipush the "DSC" button on the MA-500TR. It is not fies the installation and connection to the VHF radio and other navigation equipment.

GPS receiver comes with MA-500TR

The MXG-5000 GPS receiver is a 66 channel parallel GPS receiver with SBAS function.



Other features

- Full dot-matrix display with adjustable backlight and contrast
- IPX7 waterproof protection (up to 1m depth of water for 30 minutes; except connectors)
- Self diagnostics function
- Flush mount installation with optional MB-75
- Slow warn function



MA-500T

SPECIFICATIONS

GENERAL

• Operating frequencies : 161.975, 162.025 MHz

(Ch 87B, 88B, default) 156 025-162 025 MHz

• Type of emission : 16K0GXW (GMSK)

 Antenna impedance : 500

 Usable temperature : -20°C to +60°C range ; -4°F to +140°F Power supply : 12V DC (9.6-15.6V)

requirement

 Current drain : TX 1.5A (at 12.0V DC) **RX 0.7A**

 Dimensions (W×H×D) 165×110×123 mm (projections not included) : 6.5×4.33×4.84 in Weight (approx.) : 1.0kg; 2.2lb

TRANSMITTER

: 2W Output power Modulation **GMSK**

 Conducted spurious : Less than -36dBm

emission

RECEIVER

• Sensitivity (20% error rate) : -110dBm (AIS/DSC)

More than 70dB (AIS/DSC) · Adjacent Ch. selectivity More than 74dB (AIS) · Spurious response

More than 70dB (DSC) Intermodulation : More than 65dB (AIS/DSC) : Less than -57dBm (AIS)

 Conducted spurious emission

Measurements made in accordance with IEC 62287-1.

All stated specifications are subject to change without notice or obligation.

DATA INTERFACE

Data Input Interface

NMEA1, NMEA3 IEC 61162-1:2000 (4.800bps) or IEC 61162-2 (38.400bps) NMEA2 IEC 61162-2 (38,400bps) RMC, GGA, VTG, GSA, Sentence format

> GSV, DTM, GNS, GLL, and GBS*1

Input level (2V applied) Less than 2mA

Data Output Interface

(common to NMEA1-3)

NMEA1, NMEA3 IEC 61162-1:2000 (4.800bps) or IEC 61162-2 (38,400bps) NMEA2 IEC 61162-2 (38,400bps)

Sentence format

NMEA1 DSC, RMC, GGA, VTG, GSA, GSV,

GBS, DTM, DSE, GNS and GLL VDM, VDO, ALR, ACA, ACS, TXT, NMFA2

RMC*2, GGA*2, GNS*2, GLL*2, VTG*2, GSA*2, GSV*2, GBS*2 and DTM*2

NMEA3 RMC, GGA, VTG, GSA, GSV, GBS,

DTM. GNS. and GLL

Output level 5V. 40mA Max.

RS-422 balanced type

• Rating of alert terminal : 24V DC, 500mA max.

*1 To use a third party GPS receiver with the MA-500TR. a GPS receiver with RAIM function is required.

*2 Depending on AIS output setting.

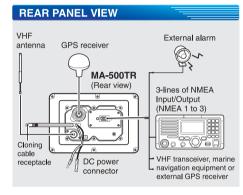
MA-500TR contents:

(* May be sold separately, depending on country)

 AIS transponder, MA-500TR Mounting bracket kits DC power cable GPS receiver with 10m cable*

NMEA connector cable

DIMENSIONS 145 (5.71) Unit: mm (inch) 123 (4.84) 08 4 (4 27) (4.33)91.4 (3.6) 0 9 165 (6.5) 77 (3.03) (1.24)



OPTIONS



MB-75

FLUSH MOUNT KIT

For flush-mounting the MA-500TR to a flat surface, such as a control panel.



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