

## MTA AIS Transponder

MTA Mediterraneo AIS Transponder is an excellent Automatic Identification System for use on marine AtoN providing information on the nav aids signals, making easy the location and identification of buoys by GPS position. Besides it has remote monitoring capabilities, such as identification of chain-breaking alarm.

In addition, MTA AIS Transponder allows the broadcasting of weather and sea information, including currents, tides, wave heights, and wind direction & intensity.

MTA AIS Transponder has been designed following IEC, IMO, ITU – RM 1371-3 and IALA A-126 Regulations.

### FEATURES

- Especially designed for buoys and land structures following **IEC 62320-2 Regulation, IALA A.126** and **IEC 60945 (exposed)**.
- VDL programming and monitoring.
- Two options available:
  - IEC Type 1 "MTA1000" is a transmitter-only device
  - IEC Type 3 "MTA3000" is a transmitter and receiver device.
- Remote lantern monitoring of alarms and status.
- 16 channel internal GPS receiver.
- Supplied with software application for programming on any PC or laptop via a serial RS232 interface .
- Power supply input of 12V.



- Low power consumption.
- Reduced weight and dimensions.
- Free maintenance.



# MTA AIS Transponder

## SPECIFICATIONS

### FREQUENCIES AND CHANNEL BANDWIDTH

Frequency range:	156.025 to 162.025 MHz	
Transmission power:	12.5 W ( Max. adjustable)	
Receiver sensitivity :	- 7 dBm to -107 dBm (MTA 3000)	
AIS 1	161.975 MHz	25 Khz
AIS 2	162.025 MHz	25 Khz
Frequency stability:	+/- 3 ppm	

### POWER SUPPLY

Power input:	9 to 15.6V DC
Power consumption (typically 13.6V):	
“MTA1000”	0.5 Ah/day.
“MTA 3000”	1.0 Ah/day.

### TRANSMISSION

Possible messages:	21, 6 ,8 12 and 14.
Standard transmission:	every 3 min. Adjustable
Control:	“MTA1000” FATDMA “MTA 3000” RATDMA

### GPS NAVIGATION

Integrated receptor:	16 Channels.
Antenna:	Active 35 dB. Marine type

### MESSAGE 21 CONTENT

- MMSI number
- Name of AtoN
- Position
- Position accuracy
- RAIM indicator
- Type of position fixing device
- GPS time and date
- Dimension of AtoN
- Type of AtoN
- Virtual AtoN target flag
- 8 bits reserved for local applications

### OPTIONS

- MTA1000:** Transmitter device AIS1/AIS2  
Fixed Slot FATDMA.  
(Base station needed)
- MTA3000:** Transmitter and receiver device  
AIS1/AIS2  
Dynamic Slot RATDMA

### ENCLOSURE

Length:	155 x 200 x 300 (h) mm
Weight:	1.6 Kg
Temperature range	-40° to +55° C
Watertightness	IP67

Transponder broadcasts AtoN message 21. Also allows broadcasting of weather and sea data on message 8 or 14 as a binary message or as a text message on message 6 or 12. Remote monitoring information is broadcasted on message 6.

The lantern monitoring system provides: lantern status, battery voltage (loaded and unloaded), sunswitch status, active flash code, number of alarms and status alarm.

### OPTIONAL

- Lantern and power supply monitoring.
- Weather and hydrologic sensors.
- Power supply 24V DC nominal.

