**Specifications**

marine AIS, AIS system, AIS receiver, AIS, AIS Transmitter, Class B AIS, Class A AIS, AIS products, AIS Transponder

Matsutec Class B AIS Transponder

Model: HA-102

FEATURES

1. Electrical function is accordance with IEC 62297-1
2. Dual Channel function: Two TDMA receivers ar receiving datum in two independent channels at the same time, and one TDMA transmitter is transmitting in two independent channels alternately.
3. CSTDMA function can avoid and solve communication conflict.
4. Transponder has external serial data interface(RS-422, RS-232).
5. Transmit and reciever safety message, and equipped with "SOS" safety button.
6. Support three operation mode: Carrier-sense mode, assigned mode and polled mode.
7. Internal GPS reciever, as data source for position, COG and SOG can be connected to all devices compatible to GPS and PC, PDA, ECDIS, RADAR, etc.
8. Alarm and indication (via LED) for power , error, time-out, status.

Specifications

|  |  |
| --- | --- |
| STANDARDS | IEC 62297-1 |
|  | IEC 61162-1 |
|  | IEC 60945-2002 |

VHF RECEIVER

|  |  |
| --- | --- |
| Frequency Range | 156.025MHZ ~ 162.025 MHZ |
| Channel Bandwidth | 25 KHZ |
| Number of AIS Receivers | 2 Receiver ( one time shared between |
|  | AIS/DSC ) / 1 Transmitter |
| CH-1 | Default CH 87B ( 161.975 MHZ ) |
| CH-2 | Default CH 88B ( 162.025 MHZ ) |
| Number of DSC Receiver | 1 ( CH 70) |
| RX DSC | 156.525 MHZ |
| Max. Usable Sensitivity | PER less 20% at -107dBm |

VHF TRANSMITTER

|  |  |
| --- | --- |
| Power Output | 2 Watt ( 33 dBm ±1.5dB ) |
| Modulation | GMSK / FM |
| Data Rate | 9.6K dps / per channel |
| Modulation Spectrum | IEC 62287 |

DSC RECEIVER

|  |  |
| --- | --- |
| Modulation | 1300 HZ / 2100 Hz FSK |
| Data Rate | 1200 bps ± 30 ppm |
| Spurious Response Rejection | Over 70dB for Signal @ -104dBm; BER less 1% |
| Blocking | More 84dB for Signal @ -104dBm; BER less 1% |

GPS RECEIVER

|  |  |
| --- | --- |
| Receiving Channels | 12 Channels |
| Acquisition Sensitivity | -140dBm |
| Tracking Sensitivity | -150 dBm |
| Position Accuracy | < 2.5m CEP ( GPS ) without SA |
| Output Rate | 1 Hz |

POWER SUPPLY

|  |  |
| --- | --- |
| Supply Voltage | 12V DC ( 10V ~ 20V ) |
| Power Consumption | Less than 10W |

MAIN UNIT

|  |
| --- |
| 4 LED Indicator Working Status |
| 1 ON/OFF Switcher |

INTERFACE

|  |  |
| --- | --- |
| Ports | NMEA 0183 / RS-422 / RS-232 |
| GPS Antenna ( Optional ) | Female TNC Connector |
| VHF Antenna ( Optional ) | Female Type M Connector |
|  | ( Type N Connector optional ) |

ENVIROMENT

|  |  |
| --- | --- |
| Operating Temperature | Antenna : -25 ~ 70 C Celcius |
|  | Others : -15 ~ 55 C Celcius |
| Storage Temperature | -25 ~ 70 C Celcius |
| Humidity | Operating: 0 ~ 95 RH at 40 C Celcius |
|  | GPS Antenna operating : 100% Hermetically sealed |
|  | VHF Antenna operating : 100% Hermetically sealed |
| Vibration | IEC 60945 |
| Waterproof | IPX5 |

PHYSICAL

|  |  |
| --- | --- |
| Size in mm ( W ) | 234mm |
| Size in mm ( H ) | 40mm |
| Size in mm ( D ) | 167mm |
| Weight |  |



**Matsutec HP-33A 4.3" marine GPS AIS transponder**



|  |  |
| --- | --- |
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| **Supply Ability:** | 300 Set/Sets per Month |
| **Port:** | Shenzhen |
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**Quick Details**

* Type: AIS transponder combo with GPS
* Use: Other
* Screen Size: 4.3 inch
* Place of Origin: Guangdong, China (Mainland)
* Brand Name: Matsutec
* Model Number: HP-33A

**Packaging & Delivery**

|  |  |
| --- | --- |
| **Packaging Details:** | cartons |
| **Delivery Detail:** | Within 1-2 weeks |

**Specifications**

color LCD AIS transponder, AIS/GPS, AIS transponder, AIS display transponder, AIS/GPS transponder, AIS receiver, class B AIS

**Matsutec**

**HP-33A**

**4.3" color LCD diaply AIS transponder combo with GPS navigator**

The HP-33A is a class B AIS transponder for Non-SOLAS vessels such as pleasurecraft, work-boat, fishing boat etc small boat.

Special design Watching dispaly to monitor Fishing net buoy, friendly ships etc. External Alarm for MOB and Collision-Risk management.

**Feature**

**To AIS**

1. Detail Target list and Radar overview

2. Watching disaply to monitor important subject, example: Fihsing net buoy, Friend ship etc

3. External Alarm (Buzzer)

4. Low cost, reduced size and easy installation make the HP-33A ideal to meet your budgets and demands of owners and vessel operators

**To GPS**

1. 4.3" Sunlight Viewvable color LCD (Brightness: 500 cd)

2. GOTO track navigation

3. Stores up to 10,000 marks/ waypoints, 100 routes and 3,000 track points

4. Delicated Man Over Board Button (MOB)

5. Support NMEA 0183 ver 2.0

6. 7 display modes available, including 2 user-customized modes

7. SBAS capable for better measurement

**Equipment list ( standard):**

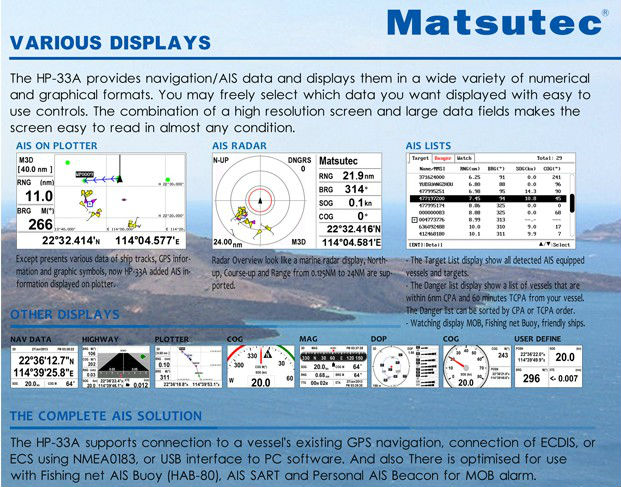
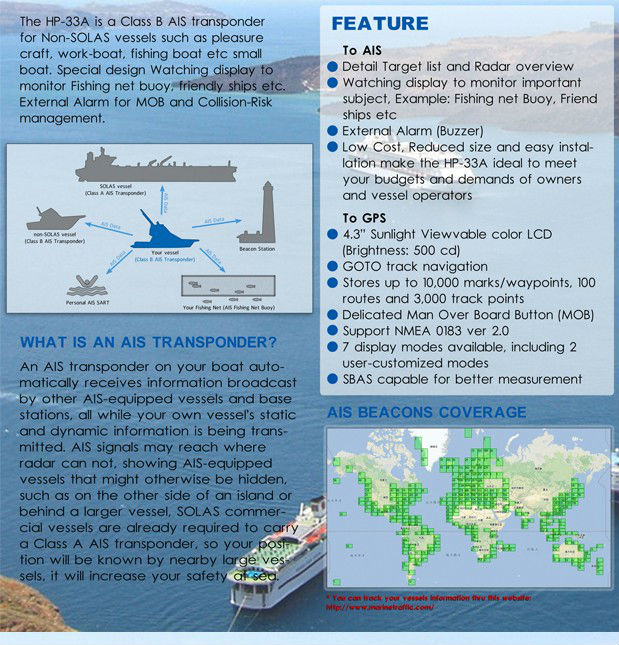
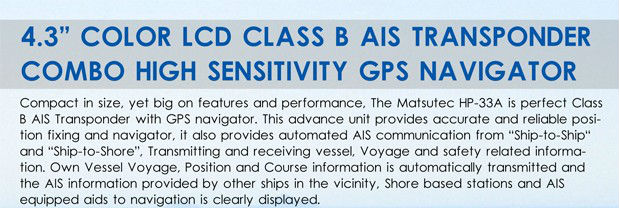
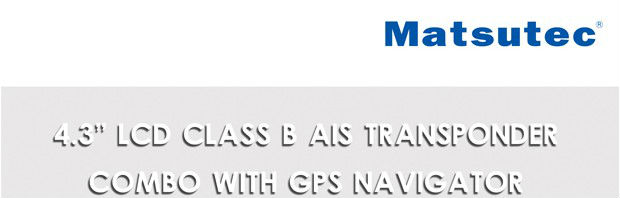
1. Dispaly unit HP-33

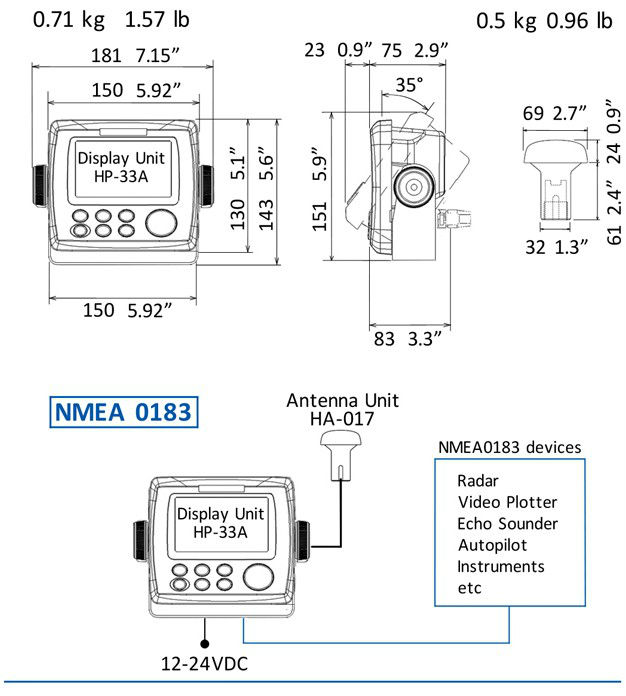
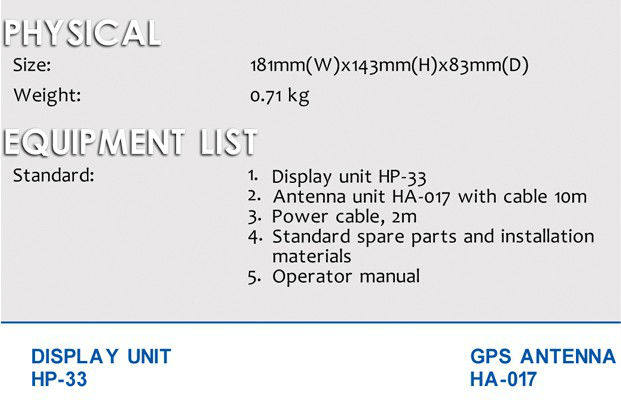
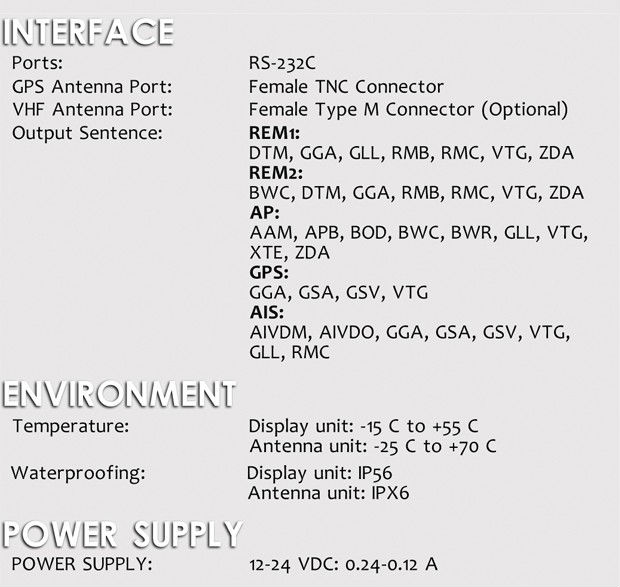
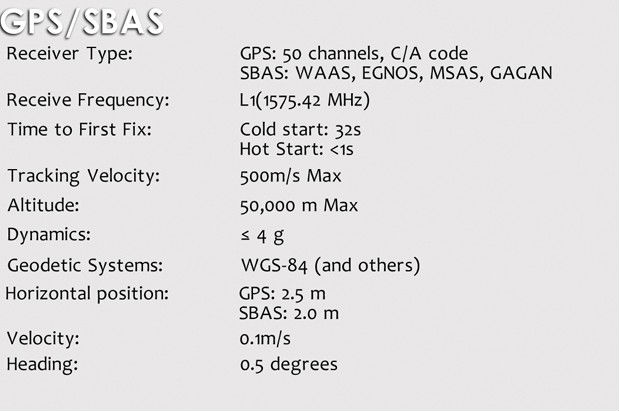
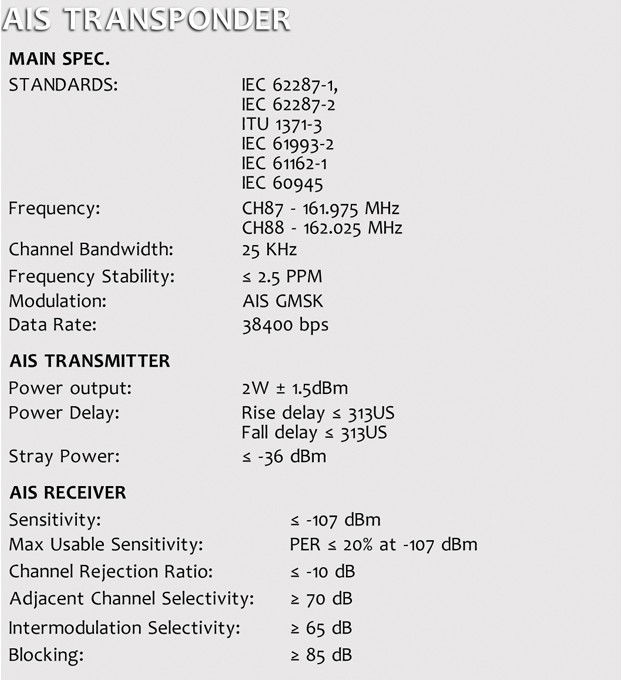
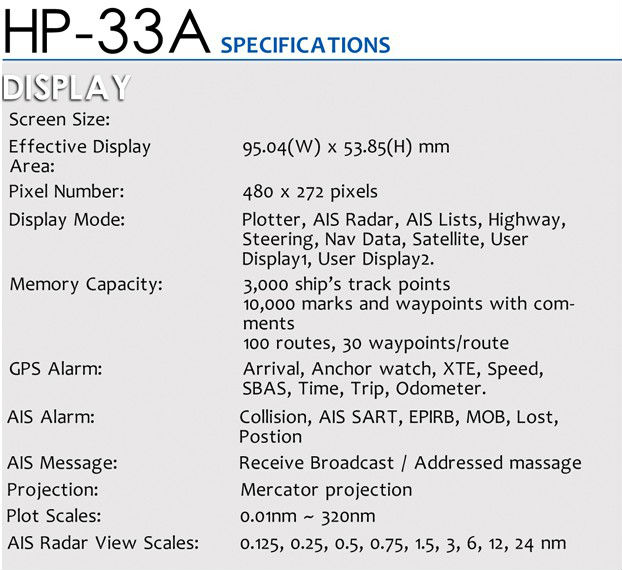
2. Antenna unit HA-017 with cable 10m

3. Power canle, 2m

4. Standard spare parts and installation material

5. Operator manual





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