Simrad GS70 IMO Compliant GPS Smart Antenna

The Simrad GS70 GPS Smart Antenna is an IMO compliant antenna which can be used with Simrad's IMO compliant GN70, MX610 and MX612 CDU's (control and display units).

The GS70 smart antenna is integrated with MX CDU's like the GN70, MX610 and MX612 via NMEA 2000 bus. It can receive DGPS corrections from SBAS satellite such as WAAS (corrections from SBAS are not IMO compliant). The GS70 has 32 channels and can output position at 1Hz, 5Hz, or 10Hz. The antenna has GPS accuracy (2DRMS) 5m and DGPS (SBAS) accuracy of 2m.

The GS70 smart antenna can also use RTCM corrections from an external source with the MX610/MX612 Junction Box.

▶ **GS70** GPS Antenna

Control and Display Units (CDU)

The GN70, MX610 and MX612 CDU's are IMO compliant Control and Display Units and can be used as cost effective Navigation Systems with the GS70 smart antenna. These CDU's with the GS70 smart antenna are versatile global navigation systems that offer a NMEA 2000 (N2K) interface for easy plug-and-play connection to high performance modules such as the AP70/80, Class B-AIS, and other navigation systems which are N2K enabled. These CDU's can be used as single display or multi-unit redundant displays.

▶ **GN70**

▶ **MX610**

▶ **MX612**

Main Features:

- IMO Compliant GPS Smart Antenna for the Professional market
- Easy to install with standard NMEA 2000 interface
- Receives DGPS corrections from SBAS (WAAS; EGNOS; MSAS) satellites
- Accepts RTCM corrections from NMEA 2000 BUS. The MX610 Junction Box can be used to convert RTCM corrections to NMEA 2000 format.
- Can be used with GN70, MX610 and MX612 CDU
- 32 channels and can output position at 1, 5, or 10 Hz,
- GPS accuracy (2DRMS) of 5m and DGPS accuracy (SBAS) of 2M
- Cold startup time 50 sec and warm startup time 3 sec

Technical specifications overleaf.

Wheelmark Approved

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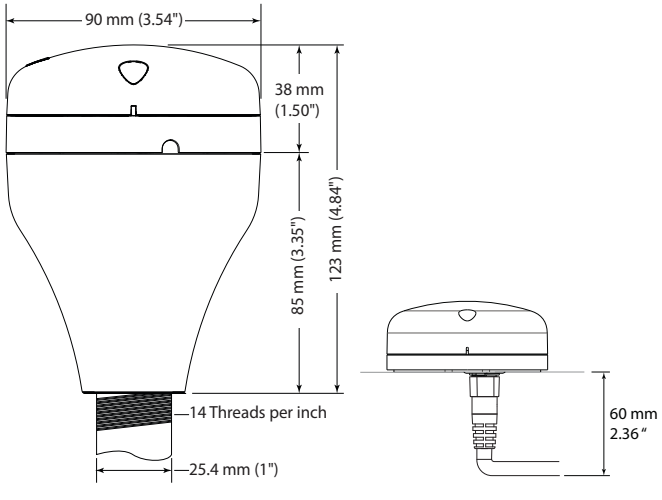
Technical Specifications

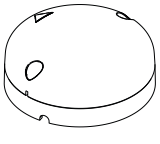
GENERAL	
Receiver Type	L1, C/A code, 1.575 GHz Frequency
Channels	32 channels
Position Update Rate	Up to 10 Hz (1, 5, 10)
Horizontal Accuracy	3 m (9.8 ft)
Cold Start	50 sec
Warm Start	3 sec
Satellite Reacquisition	5 sec
ENVIRONMENTAL	
Operating Temperature	-25° C to +60° C
Storage Temperature	-40° C to +85° C
Splash Proof	IPX7
Humidity	40° C, 93%RH, operating
ELECTRICAL	
Input Voltage	9 V DC - 18 V DC
Reverse Polarity Protection	Yes
Power Consumption	< than 2w
Current Consumption	< 100 mA @ 12 V DC
Dimensions	90 mm (diam) x 38mm (height) 3.54" (diam) x 1.50" (height)
Weight	0.14 Kg (0.3 lbs) aprox
Power/Data Cable	NMEA 2000 thru NMEA 2000 network
Antenna Connector	NMEA 2000 Micro C
Mounting	Flush mount / Standard Pole Mount

DIMENSIONS



COMMUNICATIONS	
Data I/O Protocol	NMEA 2000
NMEA 2000 PGNs	
PGN Number	**PGN Title**
59392	ISO Acknowledgement
59904	ISO Request
60928	ISO Address Claim
126208	Request group function
126464	Transmit PGN's group function
126996	Product Information
126992	System Time
129025	Position, RU
129026	COG & SOG RU
129029	Position Data
129539	GNS DOP
129540	GNS Satellites in view
129549	DGNSS Corrections
127258	Magnetic Variation
129545	GNSS RAIM output
129546	GNSS RAIM settings

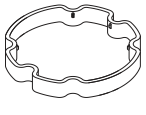
SUPPLIED PARTS

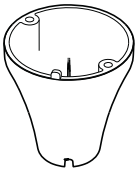

Antenna


Micro-C Drop cable (female to male)
4.5 m (15 ft)


Fixing screws (4)


Micro-C T-joiner


Gasket


Pole mount

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