



Marine GPS Timing Receiver

Model: GR-422S

Provides 1PPS for Time Precision Applications

GR-422S is an outstanding high sensitivity Marine GPS receiver. Its excellent performance easily conquers the most difficult tasks. In addition, it provides various functions to meet customers' needs. You will find the device an **accurate, reliable** and **useful** aid to your positioning pursuits.



GR-422S with A type holder (optional)



GR-422S with B type holder

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Overview

GR-422S is the latest GPS product innovation in combining GPS receiver technology and mini-antenna in a Plug-Navigate-Location concept from SAN JOSE NAVIGATION, INC.

GR-422S receives FREE broadcast signals from the Low Orbit Global Positioning System (GPS), a satellite-based transmitter which emits ranging/satellite information/high precision time signals that the **GR-422S** receiver can use to determine positions and time. It also has high sensitivity for weak signal operation without compromising accuracy. Undoubtedly, **GR-422S** is the best choice for you.

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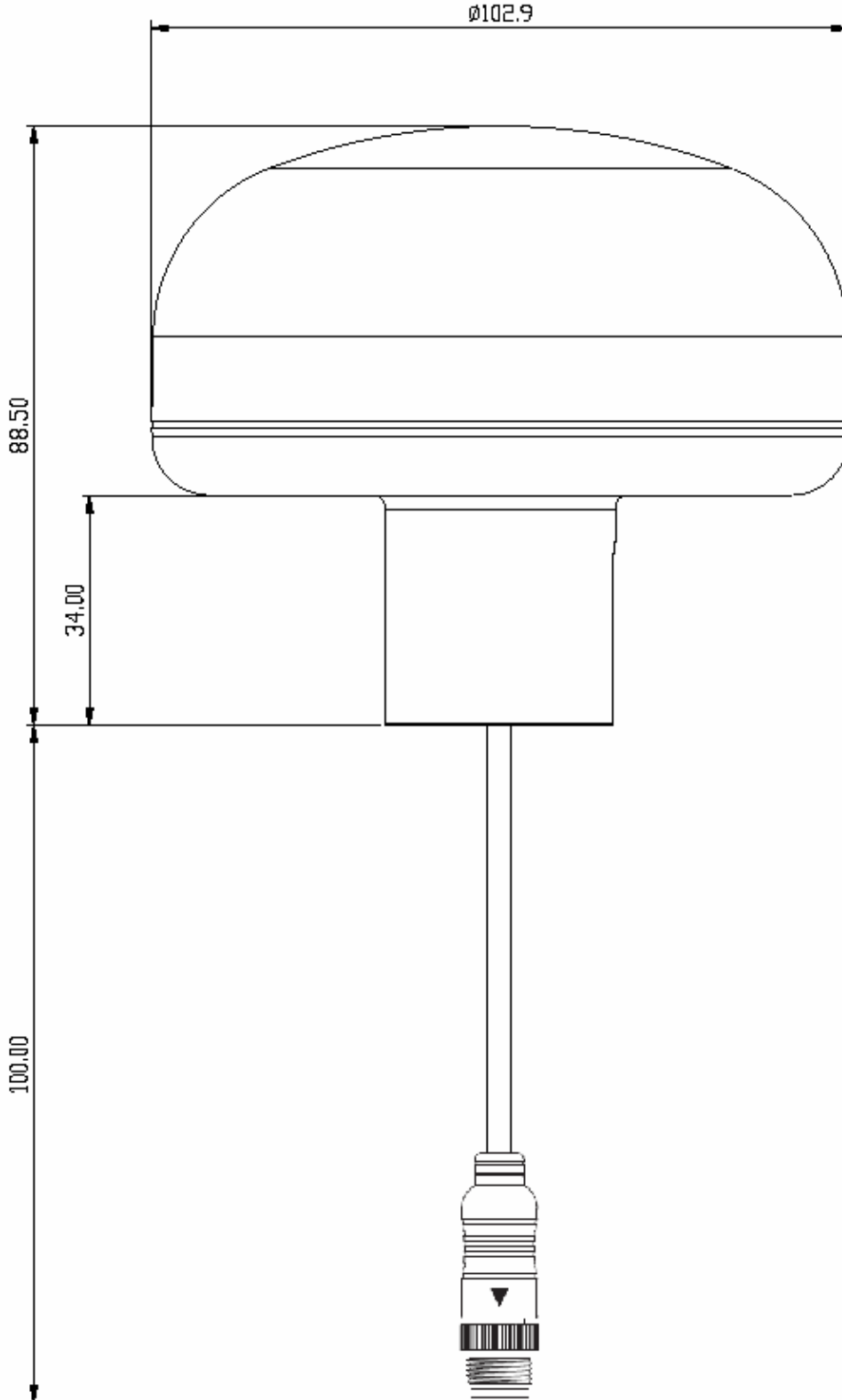
Specifications:

PHYSICAL CONSTRUCTION	
Enclosure	Highly impact; corrosion-proof
Construction	Ultrasonic welded, fully waterproof IPX7,6Pin Connector
ENVIRONMENTAL CONDITIONS	
Temperature	Operating: -30 ~ +75 °C
	Storage: -40 ~ +85 °C
COMMUNICATION	
Protocol	NMEA 0183
Signal level	RS-422
INTERFACE CAPABILITY	
Output Sentences (Option)	GPGGA(1sec),GPRMC(1sec), GPGSA(1sec), GPGSV(5sec)
PERFORMANCE	
Built in Antenna element	High-reliability ceramic patch
GPS Chipset	SiRF StarIII, GSC3f/LPx (FV-38) (Digital, RF in a single package)
Frequency	L1 1575.42MHz
Code	C.A Code.
Channels	20 parallel
Sensitivity	-159dBm
SBAS	3 channel (Support WAAS, EGNOS, MSAS)
Start-up time	1 sec. Typical (chip hot start) 35 sec. Typical (chip warm start) 35 sec. Typical (chip cold start)
Reacquisition	0.1sec. typical
Position accuracy	10 m at 2D RMS
Velocity	514 m/s
Altitude	18000m
LNA	Gain:20dB ; NF: 0.8dB
Update Rate	1Hz
Power Supply	8~35V
Power Consumption	26mA@12V DC
Baud Rate	4800 bps (default) 1Hz
1PPS Pulse Level	5V

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Outline Drawing:



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