

# FURUNO



**Mackay**

Marine Electronics &  
Satellite Communications



## FAQ

FREQUENTLY  
ASKED  
QUESTIONS

## GP340

GLOBAL NAVIGATION  
SATELLITE SYSTEMS  
(GNSS) RECEIVER

# GP340 GNSS Receiver FAQ

## **GP340 Overview**

### Q What GNSS satellite systems does the GP340 work with?

The GP340 Supports GPS L1/L5, GLONASS L1, Galileo E1/E5, QZSS L1/L5, and Beidou B1/B2

### Q What GNSS augmentation systems does the GP340 support?

WAAS, EGNOS, MSAS, and GAGAN

### Q Can I select what Satellite system for the GP340 to use for position?

No. The GP340 will automatically use a combination of satellites from all the available satellite systems. It will use satellites that are closest to the zenith.

### Q When is the first GPS rollover for the GP340?

The first GP340 GPS rollover will not happen until January 1st, 2041.

### Q What is the update rate of the GP340?

Up to 10hz. Ten (10) times a second.

### Q Does the GP340 output Magnetic Variation?

No. The GP340 does not have a built-in magnetic Variation table.

### Q What is the LEN value of the GP340?

One (1) LEN. 12-24vdc/30mA-20mA.

## **GP340 Connections/Compatibility**

### Q. What models of Furuno NavNet MFDs is the GP340 compatible with?

The GP340 is compatible with all NavNet series MFDs. NAVnet 1, NAVnet VX2\*, NAVnet 3D, TZtouch, TZtouch2, TZtouch3, and TZtouchXL.

*\*See the NMEA 0183 section of this FAQ and the MFD manual for additional information.*

### Q I'm replacing a GP330B with the GP340. Can I reuse the GP330B connection cable?

No, the GP340 uses a proprietary 6m NMEA 2000 drop cable. The end that connects to the GP340 is a 9pin proprietary connector which is different from



what the GP330B uses. The GP340 cable connector that attaches to the NMEA 2000 bus is a standard NMEA 2000 connector.

Q Can the GP340 output NMEA 2000 PGNs and NMEA 0183 sentences at the same time?

No. You can only connect either the NMEA 2000 or the optional NMEA 0183 cable at a time. If you have a system that needs both NMEA 2000 and NMEA 0183 information, there are a couple of options. You could possibly use the [IF-NMEA2K2](#) converter or if you have a Furuno TZtouch2, TZtouch3, or TZtouchXL MFD, use the NMEA 0183 output port of the MFD.

## **Installation**

Q What comes in the box?

The GP340 is supplied with a 6m proprietary NMEA 2000 drop cable, surface and pipe mount adapters, installation materials and an owner's/installation manual.

Part Description	Quantity
GP-340 Main GNSS Receiver	1
Mount Base Adapter	1
Mount Base Adapter Screws	3
Cable Side Exit Adapter	1
Bracket Mount	1
Bracket Mount Screws	3
User Manual	1
6m NMEA2000 Drop Cable	1



Q What mounting styles are available for the GP340?

A pipe and surface mount are available. Standard with the GP340.

Pole Mount



Surface Mount



## **NMEA0183**

### **Q** Is there an NMEA 0183 version of the GP340?

An optional NMEA 0183 cable, part # GP3-400-183-06 can be used in place of the NMEA 2000 cable to output NMEA 0183 sentences.

### **Q** Will the GP340 with optional NMEA 0183 cable work with NAVnet 1 and NAVnet VX2 MFDs?

The GP340 has been tested to work with NAVnet 1 and NAVnet VX2 MFDs. However, keep in mind that the output of the GP340 is fixed at 38.4k baud. The only port on a NN1 or VX2 that can support a 38.4k baud rate is port 1 (7") and port 2 (10"). If these ports are currently being used by the current GPS that is being replaced or the ports are open, then the GP340 will work. However, if these ports are being used as an AIS input (AIS only works at 38.4k), then the GP340 will not work. In that case we recommend the [GP39](#) or the [IF-NMEA2K2](#).

### **Q** What are the pin outs for the optional 6m NMEA 0183 pigtail cable?

<b>GP340 Optional 6m NMEA 0183 cable Part # GP3-400-183</b>			
Function	Wire Color	AWG	Note
PWR +	Red	22	
PWR -	Black	22	
Shield	Drain	22 (Drain Wire)	
N.C.			
N.C.			
TXB	Blue	24	] Twisted Pair
TXA	White	24	
RXB	Green	24	] Twisted Pair
RXA	Yellow	24	

### **Q** How many NMEA 0183 output ports does the optional cable have?

One. The white and blue twisted pair.

## **Output NMEA 2000 PGNs and NMEA 0183 sentences**

### **Q** What NMEA 2000 PGNs does the GP340 support?

#### **Input**

59904	ISO Request
60160	ISO Transport Protocol, Data Transfer
60416	ISO Transport Protocol, Connection Management - BAM group function
65240	ISO Commanded Address
126208	NMEA Request/Command/Acknowledge group function

#### **Output**

59392	ISO Acknowledge
60928	Address Claim
126208	NMEA Request/Command/Acknowledge group function
126464	TX/RX PGN List
126992	System Time
126993	Heartbeat
126996	Product Info
126998	Configuration Information
129025	Position, Rapid Update
129026	COG & SOG, Rapid Update
129029	GNSS Position Data
129044	Datum
129538	GNSS Control Status
129539	GNSS DOPs
129540	GNSS Sats in View
130822	PPGN- Unit Division Code
130823	PPGN - Browser Control Status

### **Q** What NMEA 0183 sentences does the GP340 output?

GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, and GPZDA. Speed is fixed at 38.4k baud.

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