

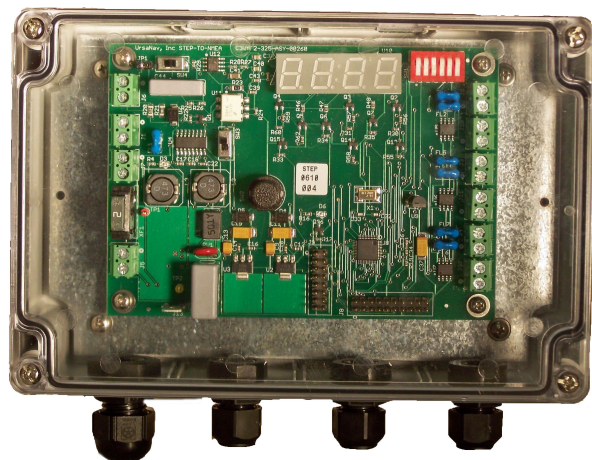
# GX-910 Pulse to NMEA Converter

The **GX-910** converts pulse-style ship speed sensor outputs into NMEA sentences. It operates with a ship's speed log that outputs a set number of pulses per nautical mile, typically 200 pulses, but 400 is used by some manufacturers. The **GX-910** accepts these pulse inputs and generates a NMEA-0183 standard \$VBVBW and \$VBVHW sentences at user-selectable baud rates of 4800 or 38400 over several parallel RS-422 output drivers.

The **GX-910** has a digital display that displays ship's speed and includes a built-in pulse generator to allow quick verification of the proper operation of the converter.

## Evolving solutions...

The **GX-910 Pulse to NMEA Converter** allows older pulse output Speed Logs to be connected to modern Marine Electronics that require NMEA speed inputs.



## DATA OUTPUT

**NMEA:** \$VDVBW, \$VDVHW  
**Baud rates:** 4800 or 38400, selectable  
**Update rates:** 1Hz or 8Hz (4800), 1Hz or 10Hz (38400), selectable

### Output Ports:

RS-422	6
RS-232	1

**Contact Closure Voltage Source:** 5VDC with a current limiting 470Ω series resistor

## PULSE INPUTS

5-30VDC (optically isolated, reverse polarity protected)  
200 or 400 pulses per nautical mile, selectable  
Rising or falling edge, selectable

## ELECTRICAL

### Power requirements:

DC Input	10-40 VDC
Voltage:	12V 55mA (display ON)
Current (typical):	30mA (display OFF)
	32V
	22mA (display ON)
	14mA (display OFF)

## ENVIRONMENTAL

Operational temp: 0 to 50C  
Relative humidity: 0 to 95%, non-condensing

## PHYSICAL

Length: 7.1" (18 cm)  
Width: 4.7" (12 cm)  
Height: 2.4" (6 cm)  
Weight: 1.5 lb (0.8 kg)



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Specifications subject to change without notice

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