

Date: February 14, 2011

Subject: NEW FEATURES OF MATRIX AIS+ GX2150

Feature	GX2100	GX2150
Baud Rate Selection	No	Yes
PA/Fog and AIS display	No	Yes
GPS Status display	No	Yes
AIS Compass Direction	No	Yes

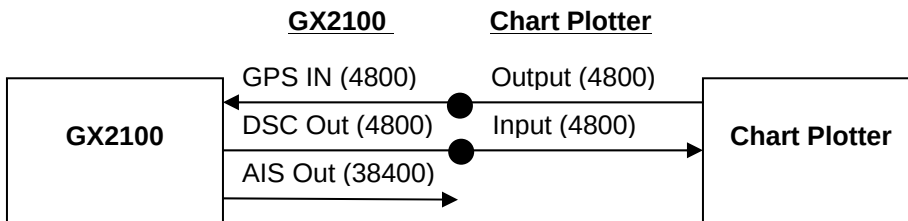
BAUD RATE SELECTION:

The GX2150 has a menu selection which allows the user to change the GPS input and DSC/AIS output baud rate. This change was made in response to requests from the market to resolves connection problems of certain plotters (RayMarine C & E Classic Series and Lowrance HDS 5 & 7) which only have one comport.

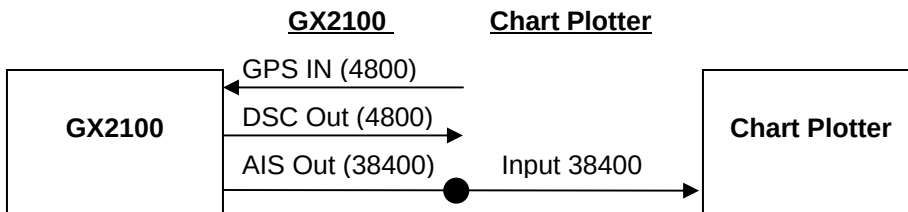
CONNECTION EXAMPLES

GX2100 (MATRIX AIS)

The GX2100 example below shows the connection problem when connected to a plotter with one comport



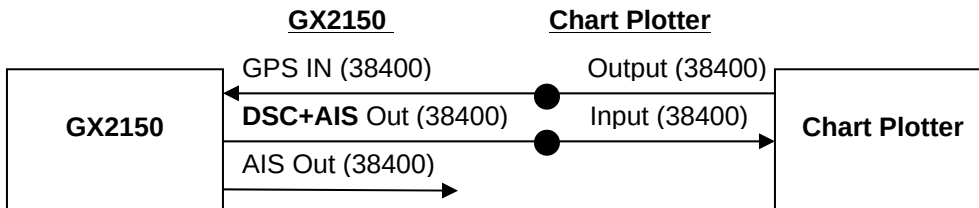
- GX2100 is **able** to receive and display GPS data from the chart plotter
- GX2100 is **able** to show AIS targets on the AIS display
- Chart Plotter is **not** able to display AIS targets



- GX2100 **cannot** receive and display GPS data from the chart plotter
- GX2100 **cannot** show AIS targets on the AIS display
- Chart Plotter is **able** to display AIS targets

GX2150 (MATRIX AIS+)

The example below shows the how the problem was corrected with the selectable baud rate on the GX2150



- GX2150 **can** receive and display GPS data from the chart plotter
- GX2150 **can** show AIS targets on the AIS display
- Chart Plotter is **able** to display AIS targets

Wire Color / Baud Rate Comparison Chart

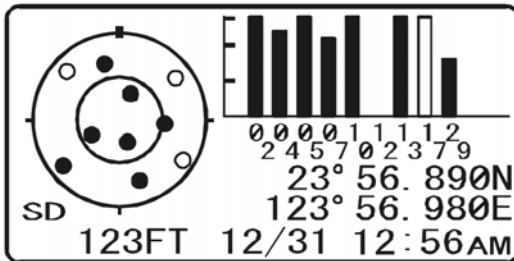
Wire color	GX2100	GX2150
Blue	GPS Input 4800 baud only	GPS Input - Default is 4800 baud - User selectable to 38400 baud
Gray	DSC Output 4800 baud only	DSC Output - Default is 4800 baud - User selectable 38400 baud. When selected DSC and AIS sentences are sent
Brown	AIS Output 38400 baud only	AIS Output 38400 baud only
Green	NMEA common	NMEA common

PA/Fog and AIS display

It is not possible to use the PA or Fog horn and still use the AIS display on the GX2100, the GX2150 can use both simultaneously.

GPS Status Display

If a chart plotter with NMEA GSA and GSV sentences or one of Standard Horizon GPS antennas is connected to the GX2150, the radios display can be set up to show a satellite numbers and related signal strengths



AIS Compass Direction

GX2100 could only show BRG to target in True readings, GX2150 can be set to show BRG to target in True or Magnetic

