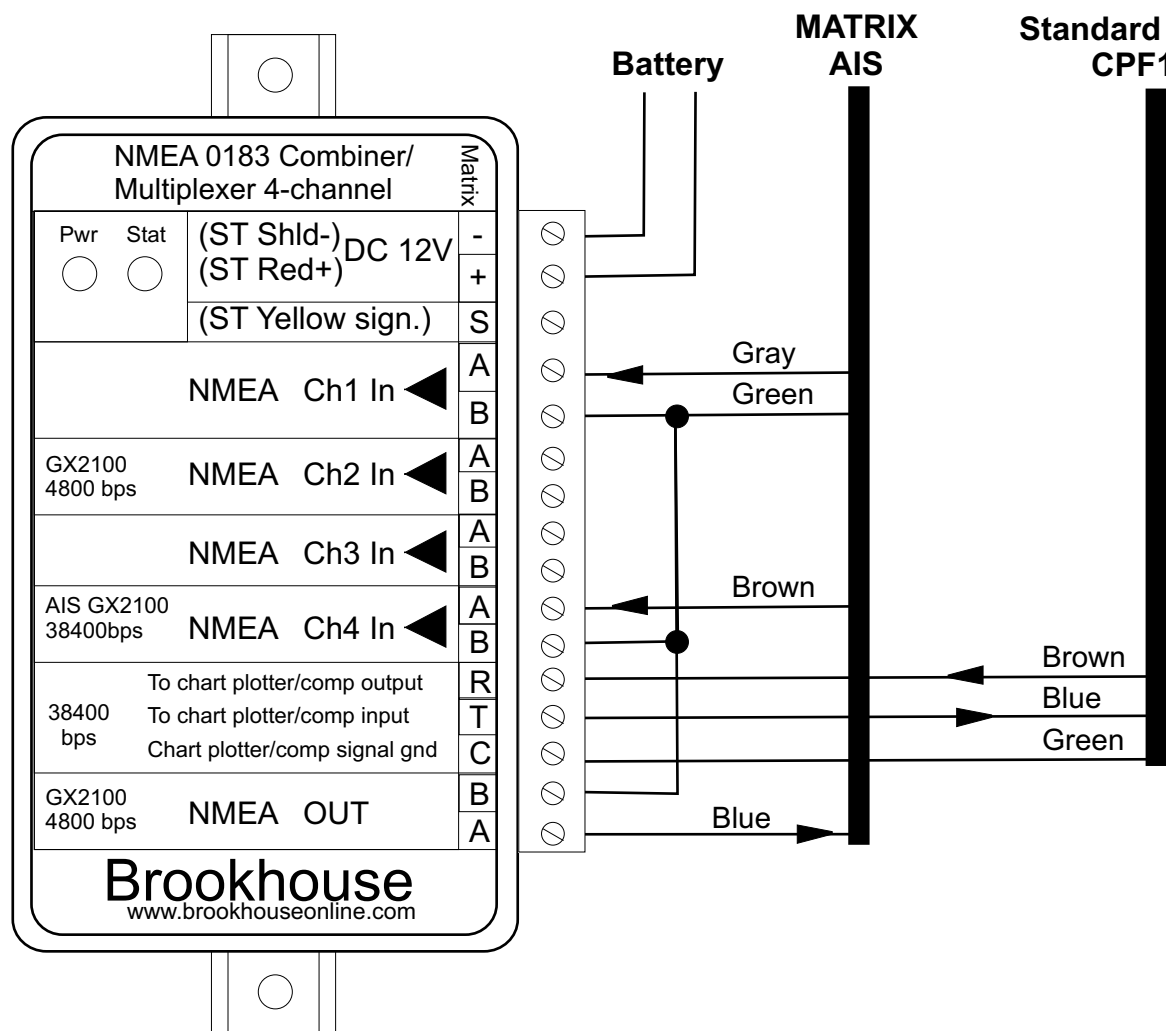# STANDARD HORIZON

Standard Horizon CPF180i to MATRIX AIS GX2100

The MATRIX AIS can be connected to a Standard Horizon CPF180i Chart Plotter/Sounder, however a NMEA multiplexer is needed as the CPF180i has only one NMEA port. Brookhouse, a company in New Zealand has designed a multiplexer with the CPF180i. The diagram below shows how to connect the multiplexer between the CPF180i and the MATRIX AIS VHF radio.

Battery **MATRIX AIS** **Standard Horizon CPF180i**

NMEA 0183 Combiner/Multiplexer 4-channel — Matrix

Pwr Stat	(ST Shld-) (ST Red+) DC 12V
	(ST Yellow sign.) S

NMEA Ch1 In — A / B — Gray / Green

GX2100 4800 bps — NMEA Ch2 In — A / B

NMEA Ch3 In — A / B

AIS GX2100 38400bps — NMEA Ch4 In — A / B — Brown

38400 bps:
To chart plotter/comp output — R — Brown
To chart plotter/comp input — T — Blue
Chart plotter/comp signal gnd — C — Green

GX2100 4800 bps — NMEA OUT — B / A — Blue

Brookhouse
www.brookhouseonline.com

After connections are made the CPF180i Port 1 must be configured to 38400 baud buy following the steps below:

1. Press **[Menu]**, move the ShuttlePoint knob to highlight **SETUP MENU** and press **[ENT]**.
2. Move the ShuttlePoint knob to highlight **ADVANCED SETUP** and press **[ENT]** or move the ShuttlePoint knob to the right.
3. Move the ShuttlePoint knob to highlight **IN/OUT CONNECTIONS** and press **[ENT]** or move the ShuttlePoint knob to the right.
4. Move the ShuttlePoint knob to highlight **PORT 1 INPUT** and press **[ENT]** or move the ShuttlePoint knob to the right.
5. Move the ShuttlePoint knob up/down to select **AIS 38400** and press **[ENT]** or move the ShuttlePoint knob to the right.

For details, visit www.brookhouseonline.com and send a email requesting information on "Matrix" varient multiplexer.