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Article applies to - GPS150 and AIT2000

## ISSUE: Connecting GPS data to Standard Horizon DSC VHF Radios

For the last 10 years, VHF radios have supported Digital Selective Calling (DSC). In order for DSC to operate you need your MMSI number entered in to the radio and an NMEA connection to a GPS system.

All of the Standard Horizon DSC VHF Radios, have an NMEA0183 GPS connection, although the very latest Explorer GPS and Matrix GPS models now feature an internal GPS for even simpler installation.

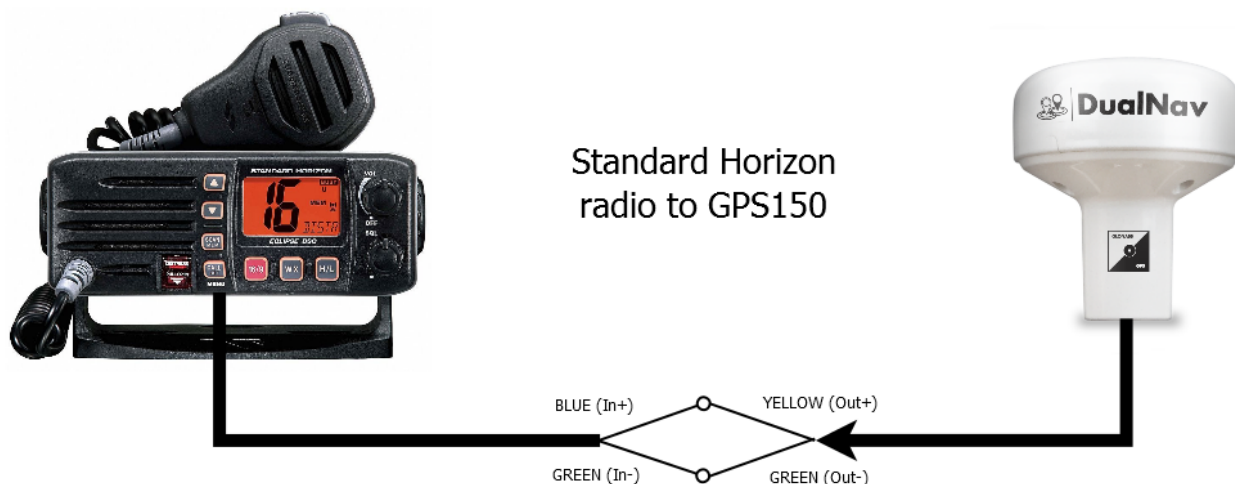
All of these NMEA0183 interfaces require a two wire connection to the GPS and for the data to be output at a data speed of 4800 baud – which means you cannot connect them directly to an AIS transponder at the higher 38400 baud speed that AIS uses.

This Tech Note explains how to connect a Digital Yacht GPS150 Dualnav GPS sensor or one of our AIT2000 Class B transponders to a Standard Horizon DSC VHF radio in order to get the GPS data on the radio. We have already published Tech Note 00052-2013 that explains how to connect our AIT2000 to a Matrix GX2000E in order to get AIS data on to the radio – which is available for download on our website.

## SOLUTION:

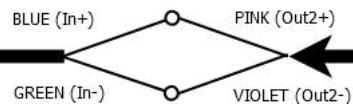
There have been a number of Standard Horizon DSC radios sold over the last 10 years but the good news is that Standard Horizon have been very consistent in their wire colours and the NMEA Input uses the same Blue (+) and Green (-) wires on all of the models of DSC radio that Standard have sold.

## Connection Diagrams





## Standard Horizon radio to AIT2000



For more information about connecting our products to Standard Horizon radios or any other products, visit our website at <http://www.digitalyachtamerica.com/> or email us on [support@digitalyacht.co.uk](mailto:support@digitalyacht.co.uk)