



DATA DISTRIBUTION INTERFACE

The X210-DB solves distribution of NMEA 0183 data to a multitude of equipment by acting as a junction box for the numerous cables, whilst ensuring that the connections and screens meet the NMEA 0183 standard.

The Interface provides 10 output ports which are totally electrically isolated from the input, to protect the system from damage and accidental short circuit.

Two Nav-aids may input their data but in the "auto mode" only the priority channel 1 will output the data with fail-safe to channel 2.

The input circuits will accept NMEA 0183 version 1 and 2, IEC 61162, RS232 and RS422.

No matter what NMEA is inputted, it outputs via 10 ports conforming to NMEA 0183 versions 1 and 2, IEC 61162, RS232, RS422, NMEA 0183-HS and IEC 61162-2.

Version 2 of the X210-DB can handle 38,400 Baud rate making it suitable for distribution of high speed heading input signals for redistribution to ARPA radars. The design takes precaution against reversed supply and over Voltages, as well as the possibility of overload or overdrive of the output ports.

Several LEDS on the PCB make for user friendliness as they indicate input and output activity.

The interface is housed in a standard robust ABS housing for bulkhead mounting indoors.



SPECIFICATIONS

POWER: 9v to 30vDC at less than 100 mA

INPUTS: 2 Channels:
NMEA 0183, IEC 61162, RS232, RS422,
Baud rate up to 38,400 bits/sec
Ch 1 priority, changes over to Ch 2 if Ch 1 input stops

OUTPUTS: 10 Channels:
NMEA 0183, IEC 61162, NMEA 0183-HS, IEC 61162-2
Standard and high speed data
All outputs ore isolated from power source and data input
Data common is grounded.
Cable screens grounded for effective EMC control
Each output A & B line 10 mA max, 5volts, via 47 ohms

ENCLOSURE: 160 x 240 x 60mm ABS splash proof housing

CONNECTIONS: Onto PCB via pluggable terminal blocks

INDICATORS: LEDs on PCB to indicate power on, input and output data