

NAVITRON SYSTEMS LTD

Heading & Speed Data Interfaces

Designed and developed by Navitron Systems Ltd to provide heading data/signal coupling between otherwise incompatible equipment, the Navitron Heading Data Interface range offers simple to install solutions to many heading data and speed log communication problems.

Three models of Heading Data Interface (HDI) are available to convert heading signals sourced from proprietary types of gyro, magnetic and electronic compass to the signal format(s) required to 'handshake' with a wide range of end users such as Radars, Trackplotters, Autopilots, GPS Receivers and Heading Repeaters. Additionally, two of the models will accept speed log pulse information for conversion to combined NMEA heading & Speed data output (VHW sentence) for use by ECDIS, AIS and VDR systems etc.

Input Signal type: -

Heading: -

NMEA 0183
(0.2 - 50Hz) →

Furuno
(0.2 - 50Hz) →

Speed: -
→
(200 or 400 pulses
per nautical mile)



Simultaneous Outputs: -

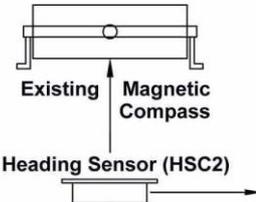
Heading: -

Navitron Autopilot Data
Navitron Serial Data
Furuno (5Hz or 40Hz)
3, 6, 12, 24 Step/degree

Heading & Speed: -

NMEA 0183 (VHW)@ 1Hz & 3Hz
with NMEA 0183 (HDT)@ 10Hz
or
NMEA 0183 (VHW)@ 1Hz & 3Hz
with NMEA 0183 (HDM & HDG)
@ 6Hz

Model NT920 HDI ~ typically for use with electronic / GPS compass types and/or pulse output speed logs.



Existing Magnetic Compass

Heading Sensor (HSC2)



Simultaneous Outputs: -

- Navitron Serial Data
- Isolated NMEA 0183: -
(2 Channels at 10Hz)
Deviation programmable

Model NT923 HDI ~ for serial data acquisition from Magnetic card compass.



Gyro Input signal types: -

Synchro ratios:
1:1, 36:1, 90:1, 180:1, 360:1

Step by Step:
3, 6, 24 Step/degree

M Type:
12 Step/degree

Speed Log:
200 or 400 pulses
per nautical mile

Simultaneous Outputs: -

- Navitron Serial Data
- Isolated Step by Step: -
(selectable at 3, 6, 12 & 24 step/degree)
- 2 x NMEA 0183 Channels: -
(i) Heading (HDT): -
Select 1Hz, 10Hz or 24Hz
with ROT (select 1Hz, 5Hz)
(ii) VHW (1Hz, 5Hz)
ROT (5Hz) or HDT (10Hz)
- Furuno: - 2 Channels
selectable at 5Hz & 40Hz

Model NT925 HDI ~ for multi-data type acquisition from most gyrocompass types combining speed log data if required.



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