



Nav Data Repeater

NDR





Nav Data Repeater NDR

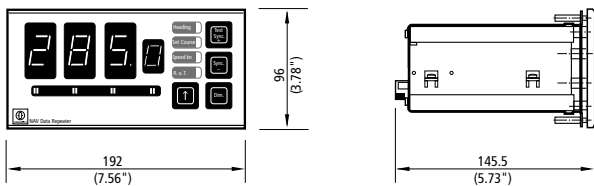
The Nav Data Repeater is a multi functional display and converter unit.

Data for heading, set heading, speed and rate-of-turn is displayed. The selection for display can easily be done with the arrow key. Heading changes are indicated by a bar graph. The speed of the indication is proportional to the rate-of-turn of the ship – a helpful indication.

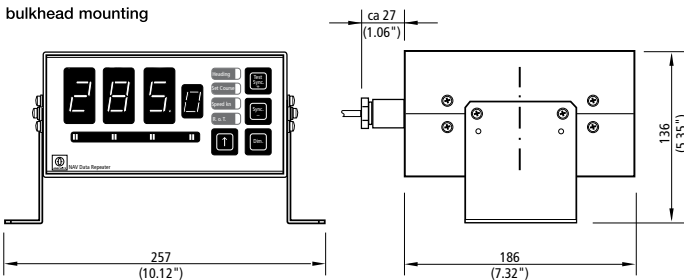
The Nav Data Repeater as converter is often required, when new equipment as AIS, VDR or also new autopilots is installed in existing system environments. Synchro and step signals from old gyro compasses are converted into serial NMEA telegrams. Synchronisation is also done directly at the Nav Data Repeater.

Speed log data with 200 pulses/nm including the status input for forward and reverse speed can also be converted into NMEA telegrams. The type of telegram for bottom or water track are configurable. In addition NMEA telegrams from older GPS receivers are converted into current NMEA telegrams.

Nav Data Repeater
for desk mounting

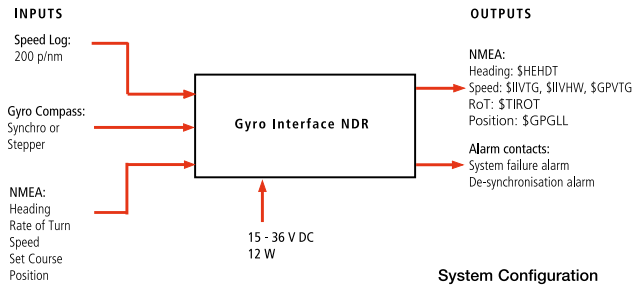


Nav Data Repeater
with casing for
bulkhead mounting



Subject to change due to technical developments without notice.

All rights reserved · Printed in Germany
RAN 801.61 e / L&S 0806



Technical Data

Reading accuracy
0.1°

Supply voltage
24 V DC (15-36 V DC)

Power consumption
max. 12 W

Serial inputs for indication [RS232C/RS422, acc. To EN/IEC 61162-1 and versions 1.5-2.0 of NMEA 0183]

Heading: \$HEHDT, \$HCHDT, \$--HDT, \$--HDM
Rate-of-turn: \$TIROT, \$HNROT
Speed: \$GPVTG, \$--VTG, \$--VHW
Set heading: \$--CTS, \$--HSC

Indication of coursebus data: Heading (gyro, magnetic – if available in coursebus) and ROT

Analog gyro signals for conversion and indication

Synchro transmission: 360:1, 180:1 or 90:1
Reference voltage: 7-120 V, 50-500 Hz
Signal voltage: 7-120 V, 50-500 Hz

Step transmission: 180:1 (6 step/degree)
Reference voltage: 7-70 V DC
Signal voltage: 7-70 V DC (common plus or minus)

Serial output as:
Heading: \$HEHDT
RoT: \$TIROT

Analog log signals for conversion and indication

200 pulses/nm, 15-36 V DC or dry contacts
(internal power supply for 15-36 V DC available)

Serial output as:
Speed: \$IIVTG or \$IIVHW (selectable)

Conversion of GPS receiver telegrams

Input (NMEA versions older than version 2.3): Position \$GPGGA and course over ground and ground speed \$GPVTG

Output (NMEA version 2.3 and newer): \$GPGLL, \$GPVTG

Conversion of other serial telegrams

Coursebus into NMEA \$HEHDT and \$TIROT (if available in course bus)
NMEA \$HEHDT 4800 Bd into \$HEHDT 9600 Bd

Alarms

Relais contact for de-synchronisation, system failure alarm

General data

Permissible ambient temperature
Operation: -15°C to +55°C
Storage: -25°C to +75°C

Type of enclosure acc. to EN/IEC 60529
IP23

In accordance with
EN/IEC 60945
EN/IEC 61162-1

Raytheon Anschutz GmbH

D - 24100 Kiel, Germany
Tel +49(0)4 31-30 19-0
Fax +49(0)4 31-30 19-291
Email sales@raykiel.com
www.raytheon-anschuetz.com