

Instructions

AT10 HD Converter (SimNet/NMEA0183)

The AT10 HD is specifically made for the GB40 Radar Processor to supply NMEA0183 heading data with high update rate (10Hz) for the MARPA function. Hence, it comes with a 12 pin plug matching the connector on the Radar Processor.

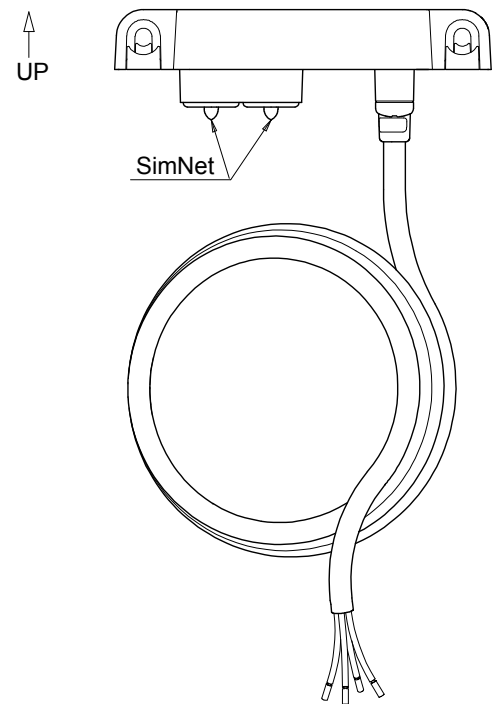
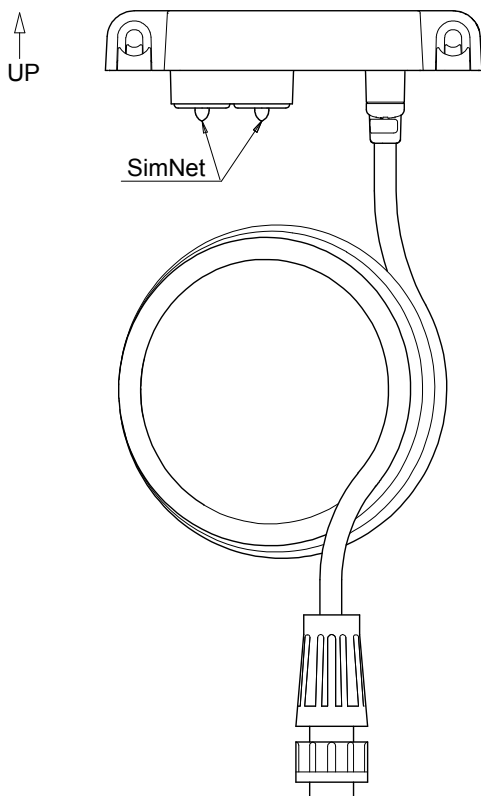
10Hz heading is the only information the AT10HD will transmit via NMEA0183.

The AT10 HD also converts data received in NMEA0183 format to SimNet/ NMEA2000 format.

The AT10 HD is powered from the SimNet bus (or from the NMEA2000 bus via an adapter cable).

If connecting the AT10 HD to a hardwired NMEA0183 device, remove the standard plug and connect the AT10 HD as per instructions below. Note the information on the next page that explains what sentences the AT10 HD can convert from NMEA0183.

Note: The AT10 HD complies with NMEA0183 version 3.01.



White	Rx+, A	From NMEA
Brown	Rx-, B	"Talker"
Yellow	Tx+, A	To NMEA
Green	Tx-, B	"Listener"

Data converted from SimNet/NMEA2000 to NMEA0183 (TX) and vice versa (RX)

NMEA0183 sentence	TX (max rate [Hz])	RX
APB		x
BWC		x
BWR		x
DBT		x
DPT		x
GGA		x
GLL		x
HDG	10 ¹	x
HDM		x
HDT	10 ²	x
HSC		
MTW		x
MWV Relative Wind		x
MWV True Wind		x
RMA		x
RMB		x
RMC		x
RSA		
VHW		x
VTG		x
VLW		x
VWR		x
WPL		x
XTE		x
ZDA		x
ZTG		x
BOD		
BWW		

NMEA2000/SimNet sentence	TX	RX
ISO Acknowledgement	59392	
ISO Address Claim	60928	
SimNet Proprietary BTW	65357	
NMEA2000	126208	
NMEA2000 Steering control	127237	
NMEA2000 PGN List - Transmit/Receive	126464	
NMEA2000 Product Information	126996	
NMEA2000 Rudder	127245	
NMEA2000 Vessel Heading	127250	
NMEA2000 Magnetic Variation	127258	
NMEA2000 Speed	128259	
NMEA2000 Water depth	128267	
NMEA2000 Distance log	128275	
NMEA2000 Position, Rapid Update	129025	
NMEA2000 COG & SOG, Rapid Update	129026	
NMEA2000 Time & Date	129033	
NMEA2000 Cross Track Error	129283	
NMEA2000 Navigation data	129284	
NMEA2000 Time to/from mark	129301	
NMEA2000 Wind data	130306	
NMEA2000 Environmental Parameters	130310	
NMEA2000 Environmental Parameters	130311	
ISO Acknowledgement		59392
ISO Request		59904
ISO Address Claim		60928
NMEA2000 Vessel heading		127250

Open cells indicates no transmission or reception.

Notes!

1. If magnetic heading on SimNet
2. If true heading on SimNet