Instructions

AT15 Converter for IS15 instruments

The AT15 converts data on NMEA0183 format to SimNet/NMEA2000 format and vice versa. AT15 is dedicated to the IS15 instrument system as compared to AT10 which is a universal converter. **None of them should be used to replace the other.** Please observe the following:

1. The NMEA port on the IS15 instruments is unidirectional (in or out), hence two IS15 instruments are required for a bidirectional interface (in and out).
2. Either one of the IS15 instruments can be the IN or OUT unit as IS15 automatically configures the NMEA0183 port to "listening" as soon as it receives data. From then it remains the "listener" until you perform a Master Reset or manually set the port to be a "talker" (see the IS15 manual).
3. If there is an IS15 Combi available, it is recommended to use that one as the IN unit because of its ability to analyze and present information about incoming NMEA data.
4. If you want the IS15 to just "listen" to data from the SimNet bus you only need to connect the cable marked OUT to a single IS15 instrument.

AT15 is powered from the SimNet bus and not from the IS15. It can either be daisy chained to the SimNet bus or connected via a drop cable to SimNet.

Notes!

1. *SimNet supports all NMEA 0183 sentences handled by IS15 except the "ZTG" sentence due to details that need clarification in the equivalent NMEA2000 sentence. The result is that you will only see dotted lines in the Time to Go display on IS15.*
2. *In systems with an IS15 Expander, connect the AT15 as per instructions in this document and do not connect other NMEA "talkers" to the NMEA terminals in the Expander. Signal loop-back may occur and cause anomalies. NMEA "listeners" may be connected to the Expander TB6 terminals.*

Data converted from SimNet to IS15 (TX) and vice versa (RX)

Open cells indicates no transmission or reception.

NMEA0183 sentence	TX (max rate [Hz])	RX
BWC	0.5	
BWW	0.2	
BWR		
DPT	1	X
HDG	4	
HDT	4	
HSC	0.5	
MTW	0.2	X
MWV Relative wind	4	X
MWV True wind		X
RMB	0.5	
RMC	0.5	
RSA	5	
VHW	1	X
VLW		X
VTG	0.5	
XTE	0.5	
ZDA	0.5