

NMEA2000® to Modbus Gateway



Provides Gateway from an NMEA2000® network to a Modbus RS485 interface for all the following devices:

- 3 engines
- 8 Fuel Tanks
- 8 Fresh Water Tanks
- 8 Grey Water Tanks
- 8 Black Water Tanks
- 8 Oil Tanks
- 3 Generators
- 3 AC Sources such as shore power and AC Bus Bars
- 8 Battery Banks
- 4 Battery Chargers each supporting up to 3 battery banks
- 8 banks of 28 control switches

The 3155 NMEA2000® to Modbus Gateway provides a powerful solution to convert NMEA2000® messages from engines, tank senders, generators, AC monitors, battery banks, battery chargers and control switches to the Modbus RS485 format.

Large yacht monitoring systems use the Modbus RS485 standard to communicate with PLCs and sensors on board to control and monitor on board systems such as tank levels, pump, ventilators, lighting, alarms and other equipment.

Marine equipment manufacturers are increasingly using the NMEA2000® interface to output data from engines, generators, tank senders, battery chargers and other equipment.

The 3155 NMEA2000® to Modbus Gateway provides the perfect link from these device interfaces to the long established Modbus based systems.

The Gateway is designed to be DIN rail mounted in a suitable location conveniently positioned to connect by a single cable to the NMEA2000® network and a single RS485 cable to the Modbus system.

With this Gateway the Modbus system can simply interrogate the NMEA2000® data from the attached devices and even control up to 8 banks of 28 switches/relays to control on board facilities.

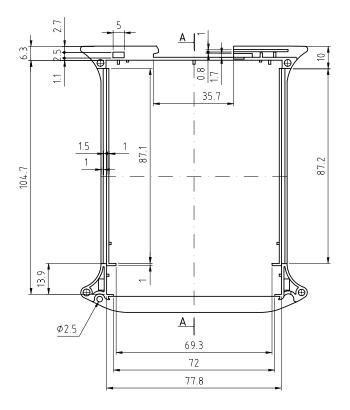
It is manufactured to the NMEA2000 $^{\circ}$ network standard and draws just 50mA current from that network.

It comes with a detailed User Manual that identifies what NMEA2000 $^\circ$ data is available, it's content, the data format and the data range with the Modbus address to read or control that data

The 3155 is simple. powerful, reliable and very easy to use.

NMEA2000® to Modbus Gateway Part No. 3155

Unit Dimensions



Design Standards				
NMEA2000®		Level B+		
Maritime Nav & RadioComm		IEC60945		
CE & FCC	Electromagnetic Compatibility			
NMEA2000® Parameter Group Numbers (PGNs)				
Source	Max No	PGN		Description
Engines	3	127488		Eng Params, Rapid Update
		127489		Eng Params, Dynamic
Fuel Tanks	8	127505		Fluid Level
Fresh Water Tanks	8			
Grey Water Tanks	8			
Black Water Tanks	8			
Oil Tanks	8			
Generators	3	127504		AC Output Status
Shore Power / AC Busbars	3	127503		AC Input Status
Battery Banks	8	127508		Battery Status
Battery Chargers	3	127507		Charger Status
Switch Banks of 28 switches	8	127501		Switch Bank Status
switches	8	127502		Switch Bank Control
Electrical and Mechanical				
Operating Voltage			9 to 32 Volts	
Power Consumption			50mA	
Load Equivalence Number			1	
Reverse Battery Protection			Indefinitely	
Load Dump Protection			Yes to SAE J1113	
Size			120 x 100 x 34mm	
Weight			16	0gm
Environmental				
IEC06954 Classification			Pr	otected
Degree of protection			IP40	
Operating Temperature			-25C to 55C	
Storage Temperature			-40C to 70C	
Relative Humidity			93%RH @ 40C per IEC 60945-8.2	
Electromagnetic Emission			Conduct/Radiated per IEC 60945-9	
Electromagnetic Immunity			Conducted/Radiated per IEC	

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