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.

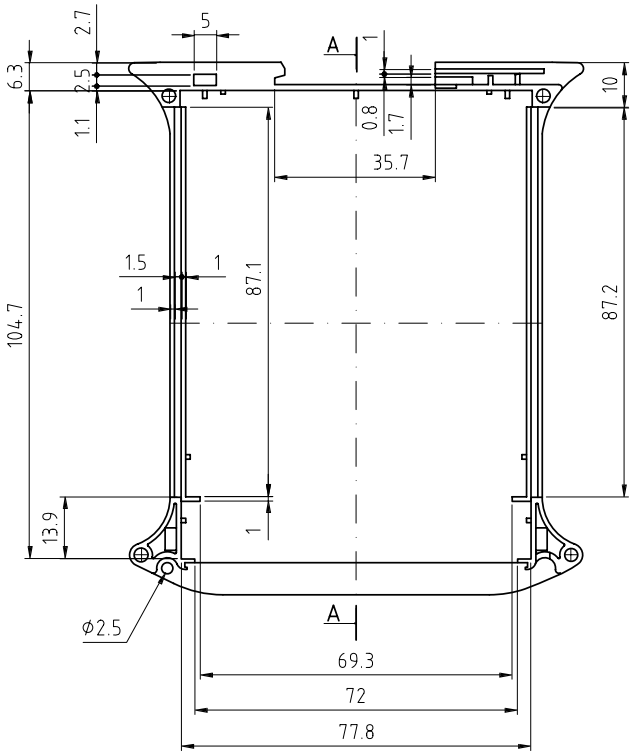
It is manufactured to the NMEA2000® network standard and draws just 50mA current from that network.

It comes with a detailed User Manual that identifies what NMEA2000® 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
	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	160gm

Environmental	
IEC06954 Classification	Protected
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 60945-10

Oceanic Systems (UK) Ltd
Unit 10-11 Milton Business Centre, Wick Drive,
New Milton, Hampshire, BH25 6RH, United Kingdom

Tel: +44(0)1425 610022
Email: sales@osukl.com
Web: www.osukl.com

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