

Albatross On Board Module Alba-Engine



Albatross modules transform data from analogue monitoring sensors to the digital format NMEA 2000 in order to display it locally or remotely. The wide catalogue of sensors which are compatible with the Albatross modules makes possible a scalable and tailored solution for each vessel.

Alba-Engine monitors RPM, oil and boost pressure, coolant and oil temperature and alternate voltage by translating the measurements into the NMEA 2000 communication protocol.

The RPM measurement is made through the W signal of the alternator or by means of the impulses generated by a magnetic sensor. Standardized resistive sensors measure pressures and temperatures. Alba-Engine is directly connected to the alternator voltage.

MEASUREMENTS	
Inputs	Magnetic Sensor / W Signal
	4 x Resistive Sensor (0 to 250 Ohm)
	Voltage DC: max. 32V DC
Accuracy	RPM: ± 100 rpm
	Resistive Sensor: 1%
	Voltage DC: 1%
NMEA2000 Parameter Group Numbers (PGN's)	
Periodic	PGN127488 Eng.Pa. Rapid Update
	PGN127489 Eng. Param. Dynamic
Information	PGN 126464 Tx/Rx PGN List
	PGN 126996 Product Information
Control	PGN 059392 ISO Acknowledge
	PGN 059904 ISO Request
	PGN 060928 ISO Address Claim
	PGN 126208 NMEA Request Group
	PGN 126720 Proprietary fast-packet
ELECTRICAL	
Voltage	9-16V DC bus NMEA
Consumption	<140mA
Equivalent Charge	3 LEN according to NMEA2000
MECHANICAL	
Size	143mm x 86mm x 38mm
Weight	230g
Assembly	Surface, fixation by screws
Box Material	Polycarbonate UL94V0
ENVIRONMENTAL	
IP Rating	IP54
Operating Temp.	-15°C to +55°C
Stored Temp.	-25°C to +85°C
Humidity	93% HR @ 40°C IEC60945-8.3
Vibration	2-13.2Hz @ ± 1 mm
	13.2-100Hz @ 7m/s ² IEC60945-8.7
Corrosion	4x7 days @40°C, 95% RH after 2h salt spray per IEC60945-8.12
E.M.C.	Emission IEC60945-9
	Immunity IEC60945-10

CONNECTIONS

(W SIGNAL + RESISTIVE SENSORS 1 OR 2 WIRES)

