

Albatross On Board Module

Alba-Propeller



MEASUREMENTS	
Inputs	2 x impulse sensors type: pick-up, Namur, NPN, PNP, free contact
	2 x supply: 24V, 12V, 8V, 5V DC @ 25mA
	2x Thermopar "K"
Accuracy	RPM $\pm 2\%$ TEMP: $\pm 5^\circ\text{C}$
NMEA2000 Parameter Group Numbers (PGN's)	
Periodic	PGN 130839 Temperature
	PGN 130840 $\pm$ RPM Hélice
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	<60mA
Equivalent Charge	2 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 @ $\pm 1\text{mm}$
	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

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-Propeller monitors:

- propeller speed and direction of rotation
- exhaust and stern tube temperature

For the detection of the speed and direction of rotation, two inductive receivers and one metallic piece are mounted as shown in the picture. The measurement of the exhaust and stern tube temperature is done by two sensors thermopar "K", which reference is Alba-STK01/03

CONNECTIONS

