AlbaCombi
Analog NMEA2000 Converter Module
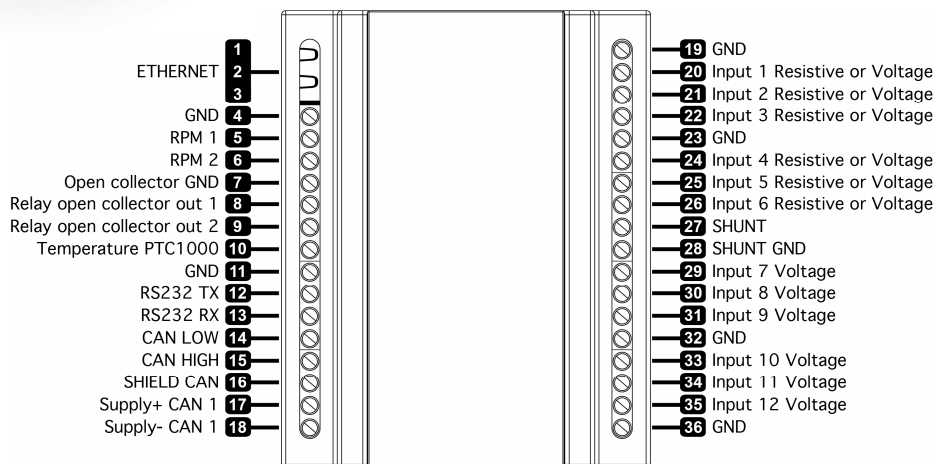
NEW

DESCRIPTION

The Alba-Combi is a state of the art analogue to NMEA2000 converter that covers the most demanding applications. The Alba-Combi has six 0V to 32V channels and another additional six channels can be configured in voltage or resistive 0 to 600 ohms mode. There are also two RPM inputs available, one PTC and one shunt input.

The Alba-Combi will convert all those channels to temperature, pressure, voltage, tank levels, current, engine status, etc. You will be able to use that information to populate all the available 15 NMEA2000 PGNs.
Calibration is done through the Ethernet port provided and the unit can be upgraded via the RS232 port.

CONNECTION

Pin	Left
1	ETHERNET
2	ETHERNET
3	ETHERNET
4	GND
5	RPM 1
6	RPM 2
7	Open collector GND
8	Relay open collector out 1
9	Relay open collector out 2
10	Temperature PTC1000
11	GND
12	RS232 TX
13	RS232 RX
14	CAN LOW
15	CAN HIGH
16	SHIELD CAN
17	Supply+ CAN 1
18	Supply- CAN 1

Pin	Right
19	GND
20	Input 1 Resistive or Voltage
21	Input 2 Resistive or Voltage
22	Input 3 Resistive or Voltage
23	GND
24	Input 4 Resistive or Voltage
25	Input 5 Resistive or Voltage
26	Input 6 Resistive or Voltage
27	SHUNT
28	SHUNT GND
29	Input 7 Voltage
30	Input 8 Voltage
31	Input 9 Voltage
32	GND
33	Input 10 Voltage
34	Input 11 Voltage
35	Input 12 Voltage
36	GND

SPECS

SPECIFICATIONS IN / OUT	
Analogue Inputs	6 x Resistive (0 to 600 Ohm) or Voltage (0-32V)
	6 x Voltage (0-32V)
	2 x RPM W signal or magnetic sensor
	1 x Precision temperature PTC1000
	1 x 100mV current shunt
Analogue input precision	1% or better
Relay out	2 x Open collector output
Data in/out	Ethernet port (calibration and monitoring)
	RS232 (module programming)
	Isolated CAN NMEA2000

NMEA2000 Parameter Group Numbers (PGN's)	
Periodic	PGN127488 Engine Parameters, Rapid Update
	PGN127489 Engine Parameters, Dynamic
	PGN127508 Battery Status
	PGN127505 Fluid Level
	PGN130312 Temperature
	PGN130314 Actual Pressure
	PGN127501 Binary Switch Bank Status
	PGN127502 Binary Switch Bank Control

ELECTRIC SPECIFICATIONS	
Tension	9-18V DC from the NMEA2000 bus
Consumption	150mA
Equivalent load	3 LEN as per NMEA2000

MECHANICAL SPECIFICATIONS	
Size	104mm x 86mm x 588mm (DIN 43880 size 6)
Weight	230g
Mounting	DIN Rail Clip EN 50.022
Case material	Top PC/UL 94-V0, Base PPO / UL 94-V0

ENVIROMENTAL SPECIFICATIONS		
Protection Class EN60529	IP20	
Working temperature	-15C to +55ºC	
Storage temperature	-25ºC to +85ºC	
Relative humidity	93% HR @ 40ºC	IEC60945-8.3
Vibration	2-13.2Hz @ ±1mm 13.2-100Hz @ 7m/s^2	IEC60945-8.7
Corrosion	4x7 days @ 40ºC, 95%HR after two hour salt spray IEC60945-8.12	
E.M.C.	Emission	IEC60945-9
	Immunity	IEC60945-10