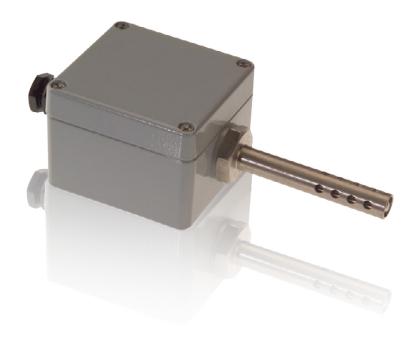


Engine Room Temperature Sensor



• 4 Thermocouple Type K input channels

The Oceanic Systems' 4521 4 Channel Temperature Module monitors up to 4 type K thermocouples and reports their temperature over the NMEA2000® network.

Engine Room Temperature Sensor Part No. 4525

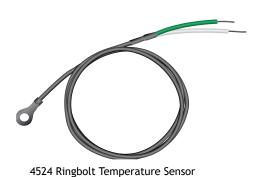


4525 Engine Room Temperature Sensor



4522 Cabin Room Temperature Sensor





Design Standard			
NMEA2000	Level B		
Maritime Nav and Radio- Comm Equipment	IEC60945		
CE and FCC	Electromagnetic Compatibility		
NMEA2000® PNGs			
Temperature	130312	Tem	perature extended range
Requested PGNS	126464	PGN	List
	126996	Product Information	
	126998	Configuration Information	
Protocol PGNs	059392	ISO Acknowledge	
	059904	ISO F	Request
	060928	ISO A	Address Claim
	065240	ISO A	Address Command
	126208	Com	plex Command
Electrical and Mechanica	al		
Operating Voltage	9 to 32 Volts		DC Voltage
Power Consumption	100mA		Average Operating
Load Equivalence Number	2		LEN
Reverse Battery Pro- tection	Yes		Indefinately
Load Dump Protection	Yes		SAE J1113
Size	120x100x35mm		
Weight	160gm		
Environmental			
IEC 60954 Classification	Protected		
Degree of Protection	IP40		
Operating Temperature	-25°C to 50°C		
Storage Temperature	-40°C to 70°C		
Relative Humidity	93%RH @40° per IEC60945-8.2		
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s2 per IEC 60945-8.7		
Electromagnetic Emission	Conducted and Radiated Emission per IEC 60945-9		
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10		
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC 60945-12		

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

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