



NMEA2000® WET EXHAUST GAS TEMPERATURE SENSOR

FEATURES

- ◆ Display actual exhaust gas temperature in °C
- ◆ Detect partial cooling water blockages before damage occurs
- ◆ Display on Master Consoles or on separate Alarm Panels
- ◆ Blue LED confirming NMEA2000® transmission
- ◆ Manufactured to NMEA2000® standard



The Oceanic Systems' NMEA2000® 4510 Wet Exhaust Gas Temperature Sensor measures the exhaust gas temperature of a marine engine or generator.

When connected to a Type T thermocouple (part number 4511) the sensor will report the temperature directly onto the NMEA2000® network.

The standard NMEA2000® output messages can be displayed on any suitably equipped NMEA2000® displays to show the actual temperature. This means partial cooling water blockages can be seen before any damage occurs.

The 4510 Wet Exhaust Gas Temperature Sensor is an important part of the Oceanic Systems' complete vessel monitoring and control system.

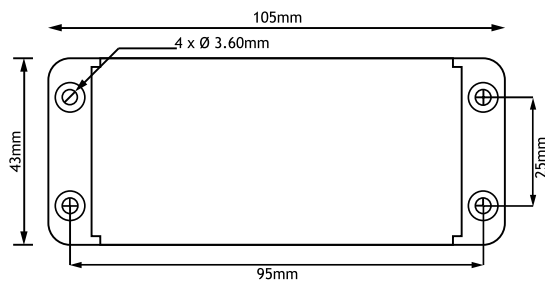
NMEA2000® WET EXHAUST GAS TEMPERATURE SENSOR

Part Number 4510

4510 NMEA2000® Wet Exhaust Gas Temperature Sensor Control Box



Mounting information for the Wet Exhaust Gas Temperature Sensor



4511 Exhaust Gas Temperature Probe (sold separately)



4510 Wet Exhaust Gas Temperature Sensor

Type	PGN No	PGN Name
Periodic Data PGNs	PGN130316	Temperature Extended Range
Protocol	PGN126464	Tx/Rx PGN List
	PGN126996	Product Information
	PGN059392	ISO Acknowledge
	PGN059904	ISO Request
	PGN060928	ISO Address Claim
	PGN126208	Command/Request Group
	PGN130312	Temperature

Design Standard

Parameter	Comment
NMEA2000	Network Standard
Maritime Nav and RadioComm Equipment	IEC60945
CE and FCC	Electromagnetic Compatibility

Electrical and Mechanical

Parameter	Value	Comment
Operating Voltage	9 to 32 Volts	DC Voltage
Power Consumption	45mA	Average Operating
Load Equivalence Number	1	LEN
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	SAE J1113
Size	105 x 43mm	
Weight	100gr	

Environmental

Parameter	Value
IEC 60954 Classification	Protected
Degree of Protection	IP30
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/s ² 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

4511 Exhaust Gas Temperature Probe

Electrical and Mechanical	
Type 'T' Thermocouple	
Cable Length	3Mtr

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