

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.

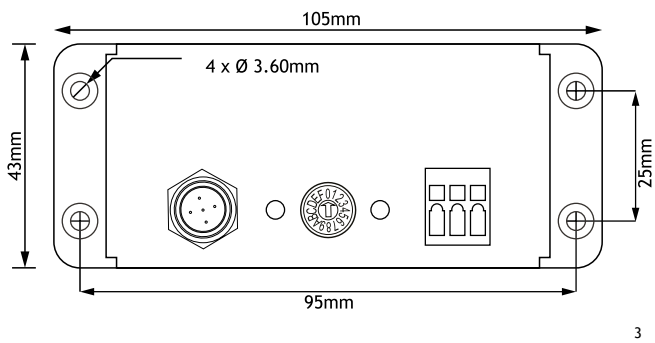
The standard NMEA2000® output messages can be displayed on any suitably equipped NMEA2000® displays to show the actual temperature. This means partial cooling water blockages can be seen before any damage occurs.

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

Dimensions



4511 Exhaust Gas Temperature Probe (sold separately)



Design Standard

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

NMEA2000 Parameter Group Numbers (PGNs)

Type	PGN No.	PGN Name
Periodic	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

Electrical and Mechanical

Parameter	Value
Operating Voltage	9 to 32 VDC
Power Consumption	45mA
Load Equivalence Number	1
Reverse Battery Protection	Indefinitely
Load Dump Protection	Yes
Thermocouple	Type 'T'
Cable Length	3m
Size	105mm x 43mm
Weight	100g

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°C per IEC60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s ² per IEC60945-8.7
Electromagnetic Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC60945-10
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC60945-12

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Our policy is one of continuous product improvement, therefore product specifications are subject to change without notice. Oceanic Systems products are designed to be accurate and reliable. However, they should be used only as aids to vessel monitoring, and not as a replacement for traditional navigation and vessel monitoring techniques.

NMEA2000® is a registered trademark of the National Marine Electronics Association