

NMEA2000® Cabin Temperature & Humidity Module



- NMEA2000® Interface
- RS485 Modbus Interface RTU protocol for sensor communications
- DIN Rail mount enclosure
- Supplying power for up to 16 4531 Cabin Temperature & Humidity Sensors
- Passes MODBUS messages from 4531 Sensors to the NMEA Interface
- Status and Warning lights for all data transfers
- Allows monitoring of up to 16 sensors

The Oceanic Systems' Cabin Temperature & Humidity Module (Part No 4530) allows up to 16 Cabin Temperature & Humidity Sensors (Part No 4531) to be connected to the module and report the temperature & humidity values over the NMEA2000® network.

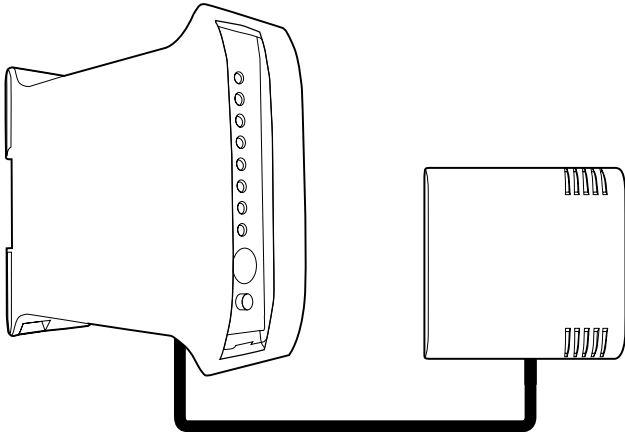
The module is compatible with either 12 or 24 Volt systems and requires NO user setup menus, but the simple setting of a small rotary address switch and a push button, so up to 16 multiple 4530 Modules can exist on the same network.

This unit is designed to operate in a protected marine environment such as an engine room or below decks. It is very important that it is installed and set up correctly according to this manual. Please read and follow the installation and setup instructions carefully to achieve the best results.

NMEA2000® Cabin Temperature & Humidity Module

Part No. 4530

Example connection to the 4531 Cabin Temperature & Humidity Sensor



Design Standard		
NMEA2000®	Level B+	
NMEA2000® PGNs		
Type	PGN No.	PGN Name
Monitor	130313	Humidity
	130316	Temperature, Extended Range
Protocol	126464	Tx/Rx PGN List
	456996	Product Information
	059392	Product Information
	059904	ISO Request
	060928	ISO Address Claim
	126208	Command/Request Group
Electrical and Mechanical		
Operating Voltage	12 to 24 Volts	
Power Consumption	75mA + (16mA x sensor)	
Load Equivalence Number	2 - 7 LEN	
Reverse Battery Protection	Yes Indefinitely	
Load Dump Protection	Yes SAE J1113	
Size	120x100x35mm	
Weight	195gm	
Environmental		
IEC 60954 Classification	Protected	
Degree of Protection	IP40	
Operating Temperature	-20 °C to 55 °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	

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