ECO SENSORS, INC. **TECH NOTE SM-4-100** 5-07
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SM-4 CONNECTIONS AND COMMUNICATIONS PARAMETERS

Terminal Block TB-1 "Sensor Cable"		Cable
Red	Power	Red: +5V (if OS-4 is used, connects with OS-4 5 V bus)
White	Signal	White or Yellow: RS232 TXD (output to PC)
Black	Ground	Black: GND
		Serial Port pinout:
		White or Yellow TXD to Pin 2 of DB9 Connector
		Black (GND) to Pin 5 of DB9 Connector
2.5 mm jack or TB-2		8-24 VDC (center + on jack)

Communications Parameters

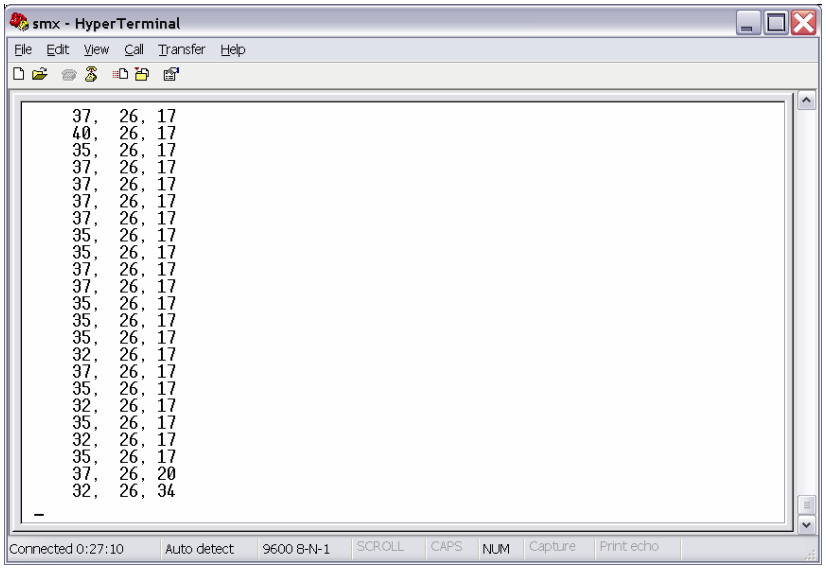
The output of the SM4 is a RS232 serial string, output at one second intervals. The communications parameters are as follows:

Bits per second: 9600
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: None

Output Format

Comma delimited stream:

Ozone (PPB), Temperature (deg C), Humidity



SM-4 data bottom line above: .032 ppm, 26 deg C, 34% relative humidity

SM-4 CONNECTIONS AND REPLACING THE SENSOR MODULE

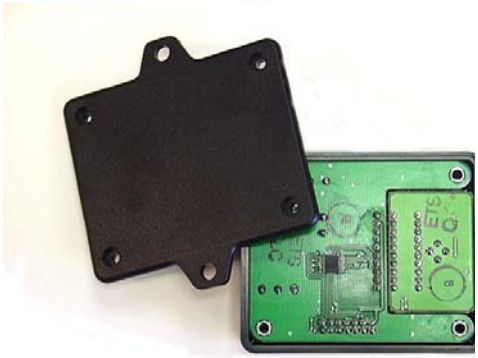
1- Locate SM-4 sensor module and put on workbench.

Sensor mounting centers are 23 mm (2 7/8")

IMPORTANT!!

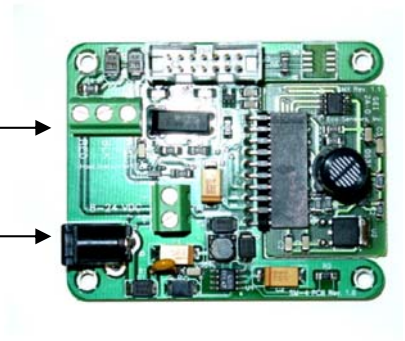
2 - **Disconnect power cable at OS-4 or SM-4 (wherever it is connected).**

3 - Remove back cover.



4 - Examine SM-4 board.

5 - Check for tight connections at the terminal blocks.



6 - Carefully replace SM-X sensor module. Reassemble SM-4 module. Connect power.

SM-4 main board SM-X replaceable sensor module