

ABSTRACTAN IMPROVED TEMPERATURE COMPENSATED ELECTROCHEMICAL
GAS SENSOR AND METHOD FOR CLOSELY TRACKING THE
TEMPERATURE VARIATIONS OF A GAS TO BE SENSED

1 An Electrochemical Gas Sensor having a temperature
sensitive element such as a thermistor arranged within the
gas sensor in a temperature insulative fashion for preventing
5 any variations in the temperature of the applied gases to be
sensed to be immediately conveyed to the temperature sensitive
element thereby providing accurate temperature compensation
signals to be combined with the generated sensor electrical
output signals. The temperature sensitive element or thermistor
10 is mounted in a heat sink to the expansion membrane of the gas
sensor to be responsive only to changes in the temperature
variations imparted by the sensor electrolyte and not by the
variations in the temperature of the gas sensor body and
associated elements thereby providing correct temperature
15 compensation signals without error producing time delays.

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Figure 3

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This Sheet Has Been Replaced

