

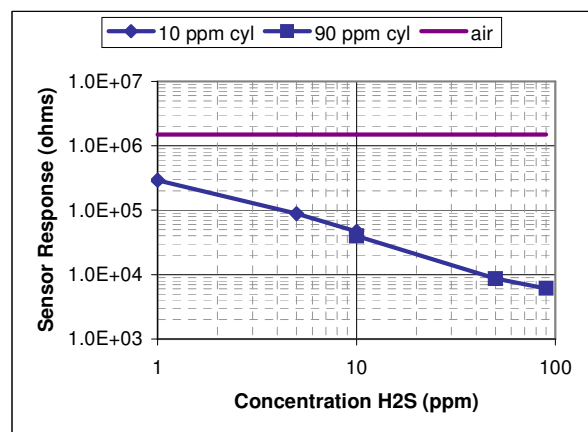
## SENSOR FEATURES:

- Sensor designed to reliably detect H<sub>2</sub>S at concentrations from 1-100 ppm.
- Rugged sensor undamaged by exposure to temperature and humidity extremes.
- Fast response and complete recovery after H<sub>2</sub>S exposure.
- Large, stable, easy to measure resistance change on exposure to H<sub>2</sub>S.
- Preliminary studies indicate sensor response is stable (does not go to sleep).

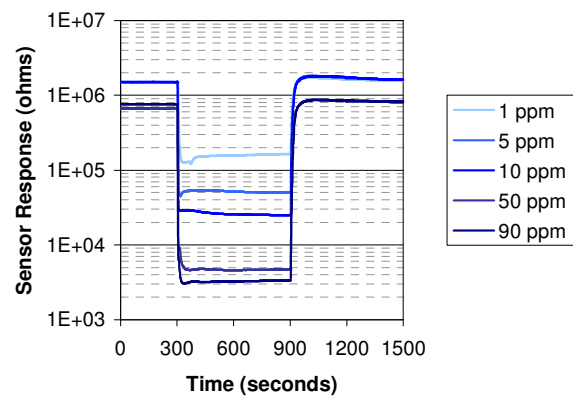


## Sensor Response Characteristics

The figures below show typical response data for sensors operated in clean, dry gas.



Linearity of sensor response to H<sub>2</sub>S. Different cylinders used for low and high concentration testing.



Sensor response curves for varying H<sub>2</sub>S concentrations. H<sub>2</sub>S introduced at t=300 seconds, and removed at t=900 seconds.

## Electrical Characteristics

The electrical properties below are typical for the H<sub>2</sub>S Sensors. If the actual values differ, the customer will be notified with the shipment. Circuits are available that will be preset to the correct values.

| Property                 | Symbol          | Value     | Remarks                    |
|--------------------------|-----------------|-----------|----------------------------|
| Heater Power Consumption | P <sub>HL</sub> | ~ 900 mW  | At V <sub>H</sub> = 7.0    |
| Heater Voltage           | V <sub>HL</sub> | 7.0 VDC   | T <sub>sensor</sub> ~350°C |
| Heater Resistance        | R <sub>H</sub>  | 32Ω ± 2 Ω | At room temperature        |
| Sensing Voltage          | V <sub>C</sub>  | 5.0 VDC   | Recommended                |

- Information on this data sheet represents values from a number of Synkera sensors. Actual values from sensor to sensor can vary slightly