



PharmTech

International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.15, No.01, pp 25-31, 2022

Gas sensors behaviours and properties

A.V. Patil^{1*} and P.V.Dalal^{*1}

^{*1}Nanomaterials Research Laboratory, Department of Physics, Shri. V. S. Naik, A.C.S.
College, Raver, India.

*Corresponding author E-mail address: adityapatil8775@gmail.com

Abstract : This is reviews of gas sensors which applicable and used in electronic systems for detection of toxic and harmful gases to date. Among the environmentally hazardous gases, namely; NO₂, NO, N₂O, H₂S, CO, NH₃, CH₄, SO₂, and CO₂. NO₂ is the most dangerous gas in terms of Threshold Limit Value (TLV) of 3 ppm. Therefore the appropriate gas sensors have been investigated to measure the low concentration limit of each hazardous gas. Semiconducting metal oxides are the good candidates due to their low cost, high sensitivity, fast response, relatively simplicity of use and ability to detect a large number of gases. Applications of chemical sensors include environmental monitoring, automotive applications, emission monitoring, and aerospace vehicle health monitoring. It also outlines the advantages and disadvantages of each sensor for gas sensing application.

Keywords : Gas sensors, Metal oxides, Semiconductor.

A.V. Patil *et al*/International Journal of PharmTech Research, 2022,15(1):25-31.

DOI: <http://dx.doi.org/10.20902/IJPTR.2022.150104>
