

TGS823

Product code: TGS823

Manufacturer: Figaro Engineering Inc.



The TGS 823 has high sensitivity to the vapors of organic solvents as well as other volatile vapors. It also has sensitivity to a variety of combustible gases such as carbon monoxide, making it a good general purpose sensor. Its ceramic base can withstand severe environments as high as 200°C.

The sensing element of Figaro gas sensors is a tin dioxide (SnO₂) semiconductor which has low conductivity in clean air. In the presence of a detectable gas, the sensor's conductivity increases depending on the gas concentration in the air. A simple electrical circuit can convert the change in conductivity to an output signal which corresponds to the gas concentration.

Application field	Industrial
Heater consumption	660 mW typical
Measurement range	50-5.000 ppm
Target Gas	Alcohol