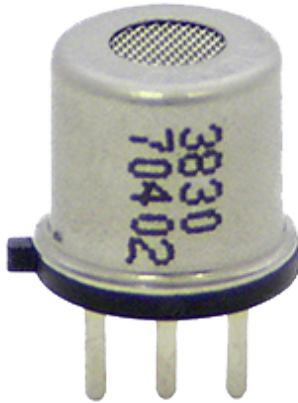


TGS3830

Product code: TGS3830

Manufacturer: Figaro Engineering Inc.



The TGS3830 is a semiconductor sensor with a high sensitivity to R-134a, the most promising alternative to R-12, commonly used in air conditioning systems and refrigerators. With its quick response speed, TGS3830 is an excellent, low-cost sensor for portable refrigerant leak detector.

TGS3830 is Figaro's new metal oxide semiconductor gas sensor for the detection of Chlorofluorocarbons. The sensing element of the sensor is a tin dioxide (SnO₂) semiconductor which has low 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. Miniaturization of the gas sensing bead results in a heater power consumption of only 120mW.

Application field	Industrial
Heater consumption	100 mW
Measurement range	5-100 ppm
Target Gas	Refrigerant gases