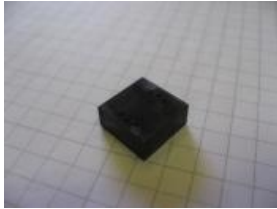




Electrochemical Gas Sensors

Industrial electrochemical sensors for various applications in gas detection, from fixed site and installed monitors to portables and ultra-small wearable monitors.

T-Series



R-Series



S-Series



M-Series



T-Series: Enabled by nanotechnology and a new unique approach in sensor design, the ultra low-power TTI T-series sensor with its tiny ½ inch square footprint and less than ¼ inch high profile provides powerful sensor specifications in a small package. The T-Series sensors have small size and low cost but boast premium performance specifications and offer operating lifetimes comparable to the larger designs. This sensor was designed for ultra-small requirements, such as wearable monitors.



3ET1CO1500: 3-electrode electrochemical sensor for CO, range 0-1500ppm

3ET1H2S100: 3-electrode electrochemical sensor for H₂S, range 0-100ppm.

3ET1OZ-020: 3-electrode sensor for ozone uses proprietary working electrode catalyst, for improved stability and wide operating range, 0-20ppm.



R-Series: 3-electrode amperometric sensor for CO, H₂S, NO, NO₂, and O₃. The nanotechnology-enabled and patented TTI R-series sensor is a 3-electrode system with pin connections (for working, reference, and counter electrodes). While the standard configuration provides compatibility with the industry-standard '7-Series' package, the pin configuration can be customized to match virtually any customer specification. These cost effective sensors are based on a design that has been proven for over 10 years in the field and have the highest reliability of any electrochemical sensor.



RCO1000/RCO1000F: Carbon Monoxide: *Range 0-1000ppm* .Recommended for normal, ambient environments

RCO1000HRH: Carbon Monoxide: *Range 0-1000ppm*; designed for prolonged use in high humidity applications

RCO1000LRH/F: Carbon Monoxide: *Range 0-1000ppm*; designed for prolonged use in low RH applications, such as inline monitoring of breathing air.

RH2S100: 3-electrode electrochemical sensor for H₂S, range 0-100ppm

RNO2100: 3-electrode electrochemical sensor for NO₂, range 0-100ppm

ROZ050: 3-electrode sensor for ozone uses proprietary working electrode catalyst, for improved stability and wide operating range, 0-50ppm. Data sheet on request.

S-Series The S-Series is our most mature line of sensors, with a 15+ year track-record. The package is very similar to the '7-Series', and in many applications may be used interchangeably. The S-Series is appropriate for typical applications, including ambient CO and H₂S monitoring, however it is built using machined parts for extreme tolerance, so it may be used in more demanding environments.



CO-SNS: 3-electrode electrochemical sensor for CO, range 0-1000 ppm.

CO-SNH: 0-5% CO, with low (<1:10) hydrogen cross-sensitivity – ideal for auto and other engine exhaust tuning.

NO2-SNL: 3-electrode chemical sensor for NO₂, range 0-10ppm with a resolution of 1 ppb and a typical detection limit of 5ppb

NO-SNS: 3-electrode electrochemical sensor for NO, range 0-1000 ppm.



M-Series: This small, 0.5” diameter, high performance gas sensor was developed for use in the probe of an indoor air quality (IAQ) meter. It has a unique profile at ½”D and 1”H.

CO-MFS: 3-electrode electrochemical sensor for 0-1000ppm CO, with integrated high-capacity interference filter. This sensor has been integrated by one customer with T, RH, and NDIR CO2 sensor into a 4-parameter IAQ probe which is less than 0.75” diameter.



H2S-MNS: 3-electrode electrochemical sensor for H2S, range 0-500 ppm. *(Data sheets available upon request)*

NO2-MNL: 3-electrode electrochemical sensor for NO2, range 0-10ppm. *(Data sheets available upon request)*



NO-MFS: 3-electrode electrochemical sensor for NO, range 0-1000 ppm. *(Data sheets available upon request)*