Where Should My Gas Sensor Be Mounted?

The ideal sensor mounting location depends on your application and on the density of the gas you are trying to detect relative to air. For a gas that is denser, or heavier, than air, you typically will want to locate the sensor 12-18 in from the floor. For a gas that is lighter than air, you will typically want to locate the sensor on or near the ceiling. For gas types that have a density similar to that of air, you would typically have sensors installed 4-6 feet from the floor, which is often referred to as the breathing zone.

Gas sensors should be placed as close to the potential gas source as possible or areas where gas may build up, for example, near the compressor/piping or in enclosed areas of equipment. Avoid placing sensors near room entrances, fresh air intake vents, or vehicle/generator exhaust points. You will want to avoid areas where rapid air movement occurs, but also avoid areas where there is little or no air movement. You should also consider accessibility to the sensor for calibration and other maintenance tasks that need to be regularly performed.

The information in this document should be used in conjunction with a site survey performed by a certified industrial hygienist or other certified safety professional to annotate the location and quantity of detection devices that are appropriate for your site. If you have any questions, please contact your product distributor or the Otis Instruments Technical Support Department.

On Or Near The Ceiling		
Ammonia - NH3	Hydrogen - H2	Methane - CH4
Acetylene - C2H2	Phosphine - PH3	Silane - SiH4
Ethylene - C2H4	Fluorine - F2	

Breathing Zone 4-6 ft from Floor To Sensor Housing		
Oxygen - O2	Carbon Monoxide - CO	Nitric Oxide - NO
Nitrogen Dioxide - NO2	Formaldehyde - CH2O	Hydrogen Cyanide - HCN
Ozone - O3		

12-18 in. From Floor To Sensor Housing			
Acetone - C3H6O	Benzene - C6H6	Butane/Isobutane - C4H10	Chlorine - Cl2
Diesel Fuel	Ethanol - C2H6O	Gasoline	Hexane - C6H14
Hydrogen Chloride - HCl	Hydrogen Fluoride - HF	Isobutylene - C4H8	Jet Fuel
Methanol - CH4O	Pentane - C5H12	Propane - C3H8	Propylene - C3H6
Sulfur Dioxide - SO2	Toluene - C7H8	Xylene - C8H10	

✦ For Refrigerant Please Contact Our Office.