



## What Gas Types Can Otis Sensors Detect?

Otis Instruments offers a wide range of detectable gasses across our product lines. Below is a list of the gas types we currently detect along with the range and what gas value we use for calibration at the factory.

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 gas types, ranges, and calibration values that are appropriate for your site. If you have any questions, please contact your product distributor or the Otis Instruments Technical Support Department.

Element Type	Gas Name	Range	Calibration Value
Electrochemical - EC	Arsine - AsH <sub>3</sub>	0-1 PPM	1 PPM*
	Formaldehyde - CH <sub>2</sub> O	0-10 PPM	10 PPM*
	Methyl Mercaptan - CH <sub>3</sub> SH	0-10 PPM	5 PPM*
	Chlorine - Cl <sub>2</sub>	0-10 PPM	5 PPM
	Chlorine Dioxide - ClO <sub>2</sub>	0-5 PPM	5 PPM*
	Carbon Monoxide - CO	0-1000 PPM	500 PPM
	Ethylene Oxide - EtO	0-10 PPM	5 PPM
	Hydrogen - H <sub>2</sub>	0-4% Vol	2% Vol
	Hydrogen Sulphide - H <sub>2</sub> S	0-10 PPM	10 PPM
		0-25 PPM	10 PPM
		0-50 PPM	25 PPM
		0-100 PPM	25 PPM
		0-2000 PPM	500 PPM
	Hydrogen Chloride - HCl	0-20 PPM	10 PPM
		0-200 PPM	20 PPM
	Hydrogen Cyanide - HCN	0-100 PPM	25 PPM
	Hydrogen Fluoride - HF	0-10 PPM	7.5 PPM*
	Ammonia - NH <sub>3</sub>	0-100 PPM	25 PPM
		0-300 PPM	100 PPM
		0-1000 PPM	300 PPM
	Nitrogen Monoxide/Nitric Oxide - NO	0-250 PPM	100 PPM
	Nitrogen Dioxide - NO <sub>2</sub>	0-20 PPM	10 PPM
	Oxygen - O <sub>2</sub>	0-25% Vol	18.5% Vol or 25% Vol
	Ozone - O <sub>3</sub>	0-5 PPM	5 PPM*
0-100 PPM		20 PPM*	
Phosphine - PH <sub>3</sub>	0-5 PPM	5 PPM	
Silane - SiH <sub>4</sub>	0-50 PPM	30 PPM	
Sulfur Dioxide - SO <sub>2</sub>	0-20 PPM	5 PPM	

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Element Type	Gas Name	Range	Calibration Value
Infrared - IR	Methane - CH <sub>4</sub>	0-100% LEL	50% LEL
		0-100% Vol	5% Vol
	Propane - C <sub>3</sub> H <sub>8</sub>	0-100% LEL	50% LEL
	Carbon Dioxide - CO <sub>2</sub>	0-5% Vol	2.5 % Vol
		0-100% Vol	50% Vol
		0-5000 PPM	2500 PPM
Catalytic Bead - CB2	Methane - CH <sub>4</sub>	0-100% LEL	50% LEL
Infrared Refrigerant - IRR	Refrigerant - R1234yf	0-2000 PPM	1000 PPM
	Refrigerant - R1234ze	0-2000 PPM	1000 PPM
	Refrigerant - R134A	0-2000 PPM	1000 PPM
	Refrigerant - R32	0-2000 PPM	1000 PPM
	Refrigerant - R404A	0-2000 PPM	1000 PPM
	Refrigerant - SF <sub>6</sub>	0-2000 PPM	1000 PPM
Photo Ionization Detector - PID	Volatile Organic Compound - VOC - 10.6eV Lamp	0-10 PPM	10 PPM
		0-20 PPM	10 PPM
		0-50 PPM	50 PPM
		0-1000 PPM	500 PPM
		0-2000 PPM	500 PPM
	Volatile Organic Compound - VOC - 10.0eV Lamp	0-100 PPM	50 PPM
	Volatile Organic Compound - VOC - 11.7ev Lamp	0-100 PPM	50 PPM

- Items marked with a "\*" are cross calibrations using a different gas, please contact your product distributor or the Otis Instruments Technical Support Department for more information.