

SELECTION GUIDE: Infrared Industries NDIR Optical Benches

This chart helps you choose which Infrared Industries NDIR optical bench to purchase. If you are interested in a gas analyzer, please consult one of our gas analyzer selection guides.

	IR-510	IR-400 Series
GAS MEASUREMENT		
Ability to measure up to 5 gases simultaneously	x	x
NDIR Infrared sensor (up to 3 gases simultaneously)	x	x
Electrochemical, paramagnetic, or other sensors (up to 2 gases simultaneously)	x	x
Choice of over 270 gases to measure	x	x
Standard gases measured under NDIR	HC, CO, CO2	HC, CO, CO2
Other gases under chem cell, paramagnetic, or other sensor	x	x
Lower cost	x	
Lower range sensing - < 10,000 ppm on CO, NO, NO2 or SO2		x
More compact and fits into high-value real estate applications	x	
Enhanced long-term stability		x
Heated sample cell		x
OPTIONS		
Additional gas channels	x	x
Extended warranty – extends warranty for two years (standard warranty of one year is included)	x	x
4-20 mA outputs	x	x
InfraView Software	x	x
SIZE		
Weight	8 ounces (225 grams)	2 pounds, 1 ounce (907.184 grams)
Dimensions	6.3" L x 3.5" W x 1.2" T	4.6" x 4.25" and path length of 3" 6", 8", 10" or 12"
YOUR APPLICATION IS		
Automotive emissions testing and motorcycle tuning	x	x
CO2 and O2 based ventilation	x	x
Combustion monitoring for boilers and furnaces	x	
Food processing		x
Hydrocarbon monitoring	x	
Industrial	x	x
Laboratory	x	

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Landfill BTU calculations and process management	x	x
LEL monitoring – fuel tanks and gas lines	x	
Monitoring atmospheres in heat treated and annealing furnaces and process steam control	x	x
Petroleum	x	x
Process monitoring	x	x
Regulatory compliance	x	x
Respiration studies		x
Safety monitoring	x	x
Stack gas monitoring		x
Stove emissions certification	x	x
Toxic and hazardous gas detection	x	x
Utility	x	
Well logging	x	