

LASERTRACE SPECIFICATIONS SUMMARY^{1,2}

PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
LaserTrace 3 H ₂ O	OP6505	H ₂ O	Air / Clean Dry Air (CDA)	250 ppt	0-5 ppm	200 ppt	+/- 3% or ½ LDL	+/- 0.75% or $\frac{1}{3}$ sensitivity	~1 slpm in N ₂ (Gas dependent)	10-125 psig
			Ar	110 ppt	0-2 ppm	90 ppt				
			C ₂ F ₆	1.5 ppb	0-5 ppm	120 ppt				
			C ₃ F ₈	1.5 ppb	0-5 ppm	120 ppt				
			C ₄ F ₈	1.5 ppb	0-5 ppm	120 ppt				
			C ₅ F ₈	10 ppb	0-8 ppm	8 ppb				
			CF ₄	1 ppb	0-4 ppm	0.8 ppb				
			CO	1.5 ppb	0-4 ppm	1.2 ppb				
			CO ₂	1 ppb	0-10 ppm	400 ppt				
			COS	5 ppb	0-7 ppm	4 ppb				
			H ₂	180 ppt	0-4 ppm	150 ppt				
			He	100 ppt	0-1 ppm	50 ppt				
			Kr	130 ppt	0-2.5 ppm	100 ppt				
			N ₂	250 ppt	0-5 ppm	200 ppt				
			Ne	100 ppt	0-1.1 ppm	50 ppt				
			NF ₃	0.75 ppb	0-4 ppm	0.6 ppb				
			O ₂	130 ppt	0-2.5 ppm	100 ppt				
			SF ₆	500 ppt	0-4 ppm	400 ppt				
		Xe	170 ppt	0-3.2 ppm	140 ppt					
PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
LaserTrace 3 O ₂ ³	OP6515	O ₂	Ar	55 ppt	0-1 ppm	45 ppt	+/- 3% or ½ LDL	+/- 0.75% or $\frac{1}{3}$ sensitivity	~1 slpm in N ₂ (Gas dependent)	10-125 psig
			CO ₂	1000 ppt	0-5 ppm	200 ppt				
			H ₂	90 ppt	0-2 ppm	75 ppt				

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LaserTrace 3 CH ₄	OP6510	CH ₄	He	50 ppt	0-0.5 ppm	25 ppt				
			N ₂	125 ppt	0-2.5 ppm	100 ppt				
			Air / Clean Dry Air (CDA)	0.95 ppb	0-7.5 ppm	0.75 ppb	+/- 3% or ½ LDL	+/- 0.75% or $\frac{1}{3}$ sensitivity	~1.65 slpm in N ₂ (Gas dependent)	30-125 psig
			Ar	0.9 ppb	0-7.5 ppm	0.75 ppb				
			H ₂	1.0 ppb	0-8 ppm	0.8 ppb				
			He	0.7 ppb	0-5 ppm	0.5 ppb				
			N ₂	1.0 ppb	0-8 ppm	0.8 ppb				
LaserTrace 2.5 H ₂ O	OP2505	H ₂ O	Air / Clean Dry Air (CDA)	0.5 ppb	0-5 ppm	0.4 ppb	+/- 3% or ½ LDL	+/- 0.75% or $\frac{1}{3}$ sensitivity	~1 slpm in N ₂ (Gas dependent)	10-125 psig
			Ar	0.22 ppb	0-2 ppm	0.18 ppb				
			C ₂ F ₆	1.5 ppb	0-5 ppm	1.2 ppb				
			C ₃ F ₈	1.5 ppb	0-5 ppm	1.2 ppb				
			C ₄ F ₈	1.5 ppb	0-5 ppm	1.2 ppb				
			C ₅ F ₈	10 ppb	0-8 ppm	8 ppb				
			CF ₄	1.0 ppb	0-4 ppm	0.8 ppb				
CO	1.5 ppb	0-4 ppm	1.2 ppb							
LaserTrace 2.5 H ₂ O	OP2505	H ₂ O	CO ₂	1 ppb	0-10 ppm	0.8 ppb				
			COS	5 ppb	0-7 ppm	4 ppb				
			H ₂	0.4 ppb	0-4 ppm	0.3 ppb				
			He	0.2 ppb	0-1 ppm	0.1 ppb				
			Kr	0.25 ppb	0-2.5 ppm	0.2 ppb				
			N ₂	0.5 ppb	0-5 ppm	0.4 ppb				
			Ne	0.2 ppb	0-1.1 ppm	0.1 ppb				

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LaserTrace 2.5			NF ₃	0.75 ppb	0-4 ppm	0.6 ppb				
			O ₂	0.25 ppb	0 - 2.5 ppm	0.2 ppb				
			SF ₆	0.5 ppb	0-4 ppm	0.4 ppb				
			Xe	0.35 ppb	0-3.2 ppm	0.3 ppb				
LaserTrace 2.5 O ₂ ³	OP2515	O ₂	Ar	0.11 ppb	0-1 ppm	0.09 ppb	+/- 3% or ½ LDL	+/- 0.75% or ⅓ sensitivity	~1 slpm in N ₂ (Gas dependent)	10-125 psig
			CO ₂	1 ppb	0-5 ppm	0.4 ppb				
			H ₂	0.2 ppb	0-2 ppm	0.15 ppb				
			He	0.1 ppb	0-0.5 ppm	0.05 ppb				
			N ₂	0.25 ppb	0-2.5 ppm	0.2 ppb				
LaserTrace 2.5 LP H ₂ O	OP2508	H ₂ O	Ar	0.5 ppb	0-4 ppm	0.4 ppb	+/- 4% or ½ LDL	+/- 0.75% or ⅓ sensitivity	Up to 1 slpm	10-125 psig
			H ₂	0.6 ppb	0-6 ppm	0.5 ppb				
			He	0.4 ppb	0-3 ppm	0.3 ppb				
			N ₂	0.7 ppb	0-6 ppm	0.5 ppb				
			NH ₃	8 ppb	0-20 ppm	6 ppb				
			PH ₃	8 ppb	0-10 ppm	6 ppb				
			AsH ₃	4 ppb	0-10 ppm	3 ppb				
LaserTrace 2.5 LP CH ₂ O	OP2514	H ₂ O	N ₂	15 ppb	0-180 ppm	12 ppb	+/- 4% or ½ LDL	+/- 0.75% or ⅓ sensitivity	~1 slpm in N ₂ (Gas dependent)	10-125 psig
			H ₂	17 ppb	0-200 ppm	13 ppb				

¹LDL is dependent upon the quality of the sample gas and the integrity of the sampling system.
²High levels of moisture in or prolonged exposure to corrosive gases can damage some instruments. Please contact Tiger Optics for more information.
³H₂ supply (maximum 10 ppm H₂O and O₂ impurity) is required for sample conditioning via catalytic conversion.
Note: Measurement in stable mixtures of two listed gases is generally OK. Check with factory for 3 or more constituents in the gas matrix.