

SPARK SPECIFICATIONS SUMMARY <sup>1,2</sup>										
PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
Spark H <sub>2</sub> O	F7700	H <sub>2</sub> O	Air:CDA	14 ppb	0-1800 ppm	10 ppb	+/- 4% or the LDL	+/- 0.75% or $\frac{1}{3}$ ; sensitivity	approx. 1.4 slpm	10-125 psig
			Ar	6 ppb	0-900 ppm	4.5 ppb				
			H <sub>2</sub>	10 ppb	0-1750 ppm	7.5 ppb				
			He	4 ppb	0-450 ppm	3 ppb				
			Kr	7 ppb	0-1100 ppm	5.5 ppb				
			N <sub>2</sub>	15 ppb	0-2000 ppm	12 ppb				
			Ne	40 ppb	0-450 ppm	30 ppb				
			O <sub>2</sub>	7 ppb	0-1000 ppm	6 ppb				
			Xe	10 ppb	0-1300 ppm	7.5 ppb				
PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
Spark H <sub>2</sub> O in CO <sub>2</sub>	F7702	H <sub>2</sub> O	Air:CDA	10 ppb	0-450 ppm	7.5 ppb	+/- 4% or the LDL	+/- 0.75% or $\frac{1}{3}$ ; sensitivity	approx. 1.4 slpm	10-125 psig
			Ar	8 ppb	0-200 ppm	6 ppb				
			CO <sub>2</sub>	750 ppb	0-600 ppm	550 ppb				
			H <sub>2</sub>	8 ppb	0-400 ppm	6 ppb				
			He	5 ppb	0-125 ppm	4 ppb				
			N <sub>2</sub>	10 ppb	0-500 ppm	7.5 ppb				
			O <sub>2</sub>	10 ppb	0-250 ppm	7.5 ppb				
PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
Spark+ H <sub>2</sub> O		H <sub>2</sub> O	Air:CDA	10 ppb	0-1800 ppm	7.5 ppb	+/- 3% or the LDL	+/- 0.5% or $\frac{1}{3}$ ; sensitivity	≤1.4 slpm	10-125 psig
			Ar	4 ppb	0-900 ppm	3 ppb				
			H <sub>2</sub>	7 ppb	0-1750 ppm	5 ppb				
			He	3 ppb	0-450 ppm	2 ppb				
			N <sub>2</sub>	10 ppb	0-2000 ppm	7.5 ppb				
			O <sub>2</sub>	5 ppb	0-1000 ppm	4 ppb				
PRODUCT	PART #	ANALYTE	GAS	LDL	RANGE	SENSITIVITY	ACCURACY	PRECISION	FLOW	PRESSURE

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	#		MATRIX				(GREATER OF)	(GREATER OF)	RATE	
Spark CH <sub>4</sub>	F7701	CH <sub>4</sub>	Air:CDA	10 ppb	0-80 ppm	7.5 ppb	+/- 4% or the LDL	+/- 0.75% or $\frac{1}{3}$ ; sensitivity	approx. 1.4 slpm	10-125 psig
			Ar	9 ppb	0-70 ppm	6.5 ppb				
			H <sub>2</sub>	10 ppb	0-80 ppm	7.5 ppb				
			He	7 ppb	0-50 ppm	6 ppb				
			N <sub>2</sub>	10 ppb	0-80 ppm	7.5 ppb				
			O <sub>2</sub>	7 ppb	0-50 ppm	6 ppb				
PRODUCT	PART #	ANALYTE	GAS MATRIX	LDL	RANGE	SENSITIVITY	ACCURACY (GREATER OF)	PRECISION (GREATER OF)	FLOW RATE	PRESSURE
Spark CO <sub>2</sub>		CO <sub>2</sub>	Air:CDA	250 ppb (3 $\sigma$ )	0-1500 ppm	250 ppb	+/- 4% or the LDL	+/- 0.75% or $\frac{1}{3}$ ; sensitivity	approx. 1.4 slpm	10-125 psig
			N <sub>2</sub>	250 ppb (3 $\sigma$ )	0-1500 ppm	250 ppb				

<sup>1</sup>LDL is dependent upon the quality of the sample gas and the integrity of the sampling system.

<sup>2</sup>High levels of moisture in or prolonged exposure to corrosive gases can damage some instruments. Please contact Tiger Optics for more information.

*Note: Measurement in stable mixtures of two listed gases is generally OK. Check with factory for 3 or more constituents in the gas matrix.*