

Aretas Sensor Networks - Sensor Specifications Data Sheet

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	Chem Formula	Sensor	Range	Accuracy of Calibration	Min. Detectable Quantity	Resolution	Operational Range	
							Temperature °C °F	RH
Sensors	T	Temperature	5 to 50 °C	±1.0 °C	5 °C	14-bit ADC ± 0.025 °C	-25 to 85°C -13 to 185°F	10 to 90%
	RH	Relative Humidity	10 to 90%	± 4%	10% RH	14-bit ADC ± 0.04	-25 to 85°C -13 to 185°F	0 to 100%
	CO	Carbon Monoxide	0 to 500 ppm	± 3.1 ppm	0 ppm	1 ppm	-20 to 50°C -4 to 122°F	15 to 90%
	CO2	Carbon Dioxide	0 to 10,000 ppm	± 30 ppm ± 3 % of measured value	0	2.4 ppm	0 to 50°C 32 to 122°F	0 to 95%
	dB	Noise	100 to 8 kHz 50 to 100 dB	± 3 dB (at 1000 Hz)	50 dB	0.16 dB	-25 to 80°C -13 to 176°F	0 to 90%
	DP	Differential Pressure	-50 to +50 Pa	± 0.1 Pa	- 50 Pa	1 Pa	-20 to 80°C -4 to 176°F	0 to 85%
		Ambient Light	0.1 to 40,000+ Lux		0.1 Lux		-30 to 70°C -22 to 158°F	0 to 60%
	NO2	Nitrogen Dioxide	0 to 20 ppm	<0.9 ppm	0	0.1	-20 to 50°C -4 to 122°F	15 to 90%
	O3	Ozone	20 to 200 ppb	< ± 2 % of reading	20 ppb		-20 to 40°C -4 to 104°F	20 to 90%
	PM	Particulate	0 to 28,000 pcs/L	50% @ 0.3um, 98% @ >0.5um	0 pcs/L	1 um	0 to 45 °C 32 to 113°F	0 to 95%
		Radiation	0.1 to 100 mSv/h	5.9 cpm/μSv/h	0.1 mSv/h		-30 to 50°C -22122°F	0 to 100%
		Ultrasonic Fluid Level						
	SO2	Sulfur Dioxide	0.3 - 20ppm	< ± 2 % of reading	0.3 ppm	0.15 ppm	-20 to 40°C -4 to 104°F	15 to 95%
	VOC	Volatile Organic Compounds	<i>based on Isobutylene</i>		<i>based on Isobutylene</i>			
		VOC Blue	2 ppm		0.5 ppb		-20 to 60°C -4 to 140°F	0 to 90%
		VOC Yellow	20 ppm		5 ppb		-20 to 60°C -4 to 140°F	0 to 90%
		VOC Red	200 ppm		50 ppb		-20 to 60°C -4 to 140°F	0 to 90%
	VOC Purple	2000 ppm		500 ppb		-20 to 60°C -4 to 140°F	0 to 90%	
	VOC Green	10000 ppm		1,000 ppb		-20 to 60°C -4 to 140°F	0 to 90%	
4-20 mA		Dew Point	-100 to 20°C dew point (-148 to 68°F) options available		0-3000 ppmv	±2°C dew point (±3.6°F)		
		Industrial Temperature	0 to 300 f options available				-18 to 149°C 0 to 300°F	
		Industrial Thermostat Controller						
	PSI	PSI Pressure	0 - 5,000 psi options available	± 0.50%	0	based on sensor range	-40 to 125°C -40 to 257°F	0 to 100%
	Ultrasonic Liquid Levels	Tank levels from 2" to 32.8' deep				-20 to 60°C -4 to 140°F		
Relay Controls		Wireless Relay Control System						