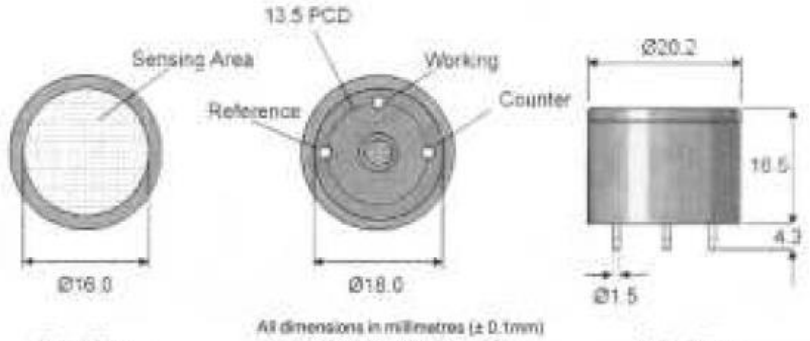
CO-AF Carbon Monoxide Sensor

P/N 67016-1204

ecification

Figure 1 CO-AF Schematic Diagram



PERFORMANCE	Sensitivity	nA/ppm in 400ppm CO	55 to 65
	Response time	t_{90} (s) from zero to 400ppm CO	< 25
	Zero current	ppm equivalent in zero air	< ± 2
	Resolution	RMS noise (ppm equivalent)	< 0.5
	Range	ppm CO limit of performance warranty	1,000
	Linearity	ppm error at full scale, linear at zero, 400ppm CO	+15 to +25
	Overgas range	maximum ppm for stable response to gas pulse	10,000

Technical Spe

LIFETIME	Zero drift	ppm equivalant change/year in lab air		< 0.2
	Sensitivity drift	% change/year in lab air, twice monthly test		< 3
	Operating life	months until 80% original signal (24 month warranted)		> 24
ENVIRONMENTAL	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO		70 to 90
	Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 400ppm CO		104 to 112
	Zero @ -20°C	ppm equivalent change from 20°C		< ± 3
	Zero @ 50°C	ppm equivalent change from 20°C		< ± 2
CROSS SENSITIVITY	Filter capacity	ppm-hours	H_2S	160,000
	Filter capacity	ppm-hours	NO_2	160,000
	Filter capacity	ppm-hours	NO	50,000
	Filter capacity	ppm-hours	SO_2	240,000
	SO_2 sensitivity	% measured gas @ 20ppm	SO_2	< 0.1
	NO sensitivity	% measured gas @ 50ppm	NO	< 5
	NO_2 sensitivity	% measured gas @ 10ppm	NO_2	< 0.1
	Cl_2 sensitivity	% measured gas @ 10ppm	Cl_2	< 0.1
	H_2 sensitivity	% measured gas @ 400ppm	H_2	< 70
	C_2H_4 sensitivity	% measured gas @ 400ppm	C_2H_4	< 25
	H_2S sensitivity	% measured gas @ 20ppm	H_2S	< 0.1
	NH_3 sensitivity	% measured gas @ 20ppm	NH_3	< 0.1
KEY SPECIFICATIONS	Temperature range	°C		-30 to 50
	Pressure range	kPa		80 to 120
	Humidity range	% rh continuous		15 to 90
	Storage period	months @ 3 to 20°C (stored in sealed pot)		6
	Load resistor	Ω (recommended)		10 to 100
	Weight	g		< 6

NOTE: all sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.