

## Alphasense Carbon Monoxide Sensor Specification Summary

Carbon Monoxide	CO-AE	CO-AF	CO-AX	CO-BF	CO-BX	CO-CE	CO-CF	CO-CX	CO-D4
Operating range (ppm)	0 to 10,000	0 to 5,000	0 to 2,000	0 to 5,000	0 to 2,000	0 to 10,000	0 to 5,000	0 to 2,000	0 to 1,000
Sensitivity (nA/ppm)	10 to 25	55 to 90	55 to 100	80 to 130	70 to 130	10 to 25	55 to 90	55 to 100	30 to 55
Resolution (ppm equivalent)	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 1.5
Response time (t90) (s)	< 50	< 25	< 30	< 25	< 25	< 75	< 30	< 40	< 25
Zero current (ppm equivalent @ 20°C)	< ± 20	-4 to +2	< ± 3	< ± 4	< ± 3	< ± 20	< -4 to +2	< ± 3	< ± 3
Hydrogen cross sensitivity (% @ 20°C)	< 75	< 60	< 4	< 65	< 5	< 60	< 60	< 4	< 70
Overgas Limit (ppm)	100,000	10,000	4,000	10,000	5,000	100,000	20,000	4,000	2,000
Operating life (months)	> 24	> 24	> 24	> 24	> 24	> 24	> 24	> 24	> 24
Temperature range (°C)	-30 to 50	-30 to 50	-30 to 50	-30 to 50	-30 to 50	-30 to 50	-30 to 50	-30 to 50	-20 to 50
Pressure range (kPa)	80 to 120	80 to 120	80 to 120	80 to 120	80 to 120	80 to 120	80 to 120	80 to 120	80 to 120
Humidity range (%rh)	15 to 90	15 to 90	15 to 90	15 to 90	15 to 90	15 to 90	15 to 90	15 to 90	15 to 90
Load resistor (Ohm) recommended	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47

Note: all sensors tested and stored at ambient environments 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 requirements.

Please use PCB sockets when connecting Alphasense sensors. Soldering, gluing or other methods of connection will void your warranty.