

Alphasense Miniature Sensor Specification Summary

Miniature Sensors	CH-D3	CL2-D4	CO-D4	D2		H2S-D4	HCN-D4	NO-D4	NO2-D4	SO2-D4
				CO	H2S					
Operating range (ppm)	0 to 100 %LEL	0 to 20	0 to 1,000	0 to 1,000	0 to 100	0 to 100	0 to 50	0 to 100	0 to 20	0 to 20
Sensitivity (nA/ppm)	10 to 17 (mV/%CH4)	-200 to -450	30 to 55	30 to 55	90 to 160	110 to 170	30 to 50	450 to 600	-200 to -450	180 to 360
Resolution (ppm equivalent)	-	< 0.1	< 1.5	1	< 0.25	< 0.2	< 0.3	< 0.1	< 0.1	< 0.2
Response time (t90) (s)	< 12	< 35	< 25	< 25	< 30	< 25	< 50	< 15	< 35	< 15
Zero current (ppm equivalent @ 20°C)	± 25 (mV)	± 0.8	< ± 3	< ± 6	< ± 1	< ± 1	± 5	< 0 to 1.5	± 0.8	± 0.7
Overgas Limit (ppm)	-	60	2,000	5,000	400	200	250	400	60	50
Operating life (months)	> 24	> 24	> 24	> 24	> 24	> 24	> 12	> 24	> 24	> 24
Temperature range (°C)	-40 to 50	-20 to 50	-20 to 50	-30 to 50	-30 to 50	-30 to 50	-10 to 50	-20 to 50	-20 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	na	33	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	10 to 47	33	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.