

Alphasense Exotic Sensor Specification Summary

Exotic Sensors	ETO-A1	ETO-B1	HCL-A1	HCL-B1	HCN-A1	HCN-B1	HCN-D4
Operating range (ppm)	0 to 100	0 to 100	0 to 100	0 to 100	0 to 100	0 to 100	0 to 50
Sensitivity (nA/ppm)	2,000 to 3,200	2,000 to 3,200	80 to 130	150 to 250	55 to 85	80 to 140	30 to 50
Resolution (ppm equivalent)	< 0.1	< 0.1	< 1	< 0.1	< 0.05	< 0.05	< 0.3
Response time (t90) (s)	< 150	< 200	< 300	< 200	< 70	< 120	< 50
Zero current (ppm equivalent @ 20°C)	± 0.6	± 0.6	< ± 2.5	0 to +2	< ± 2	< ± 2.5	< ± 5
Overgas Limit (ppm)	200	500	200	200	150	200	250
Operating life (months)	> 24	> 24	> 12	> 12	> 12	> 12	> 12
Temperature range (°C)	-30 to 50	-30 to 50	-30 to 50	0 to 50	-30 to 50	-30 to 50	-10 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
Humidity range (%rh)	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 33	10 to 33	10 to 33	10 to 33	10 to 33	10 to 47

Exotic Sensors	H2-AF	H2-BF	NH3-B1	O3-B4	PH3-A1	PH3-B1	PH3-BE
Operating range (ppm)	0 to 2,000	0 to 10,000	0 to 100	< 2	0 to 10	0 to 10	0 to 2,000
Sensitivity (nA/ppm)	15 to 20	12 to 25	25 to 45	-600 to -1,000	550 to 900	600 to 1,000	15 to 35
Resolution (ppm equivalent)	< 0.5	2	< 0.3	< 3	< 0.03	< 2	< 2
Response time (t90) (s)	< 30	< 100	< 60	< 30	< 25	< 20	< 30
Zero current (ppm equivalent @ 20°C)	0 to -20	±10	< ± 7	< -75 to 0	< ± 0.3	< 0.1 to 0.5	< -6 to +20
Overgas Limit (ppm)	5,000	2,000	200	nd	75	150	5,000
Operating life (months)	> 24	> 24	> 24	> 24	> 24	> 24	> 24
Temperature range (°C)	-30 to 50	-30 to 50	-30 to 50	-20 to 50	-30 to 50	-30 to 50	-30 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
Humidity range (%rh)	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	33 to 100	10 to 33	10 to 33	10 to 33

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.