



Sensor Catalog

Sensor category	Sensor type	Brand	Description	Sensitivity (nA/ppm)	Response time (s)	Resolution (ppm)	Range (ppm)	Linearity (ppm)	Overgas limit (ppm)	Operating life (month)	Temperature range (°C)	Pressure range (kPa)	Humidity range (% RH)
NO ₂	NO ₂ - D4	Ab1	Miniature nitrogen dioxide sensor	(-200 to -450)	< 35	0.1	20	0 to -0.6	60	> 24	(-20 to 50)	80 - 120	15 - 90
	NO ₂ - AE	Ab1	Small, high concentration nitrogen dioxide sensor	(-100 to -170)	< 40	< 0.1	200	< 2 to 11	> 1000	> 24	(-20 to 50)	80 - 120	15 - 90
	NO ₂ - A43F	Ab1	4 -Electrode, small, low ppb nitrogen dioxide sensor	(-175 to -450)	< 60	15 ± 2 ppb	20	< ± 0.5	50	> 24	(-30 to -40)	80 - 120	15 - 85
	NO ₂ - A1	Ab1	Small nitrogen dioxide sensor	(-250 to -650)	< 50	< 0.02	20	< 1.5	100	> 24	(-20 to 50)	80 - 120	15 - 90
	NO ₂ /M-100	Ab2	Miniature nitrogen dioxide sensor	(90 to 150)	< 40	0.5	100	Linear	200	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	NO ₂ /M-20	Ab2	Miniature, highly sensitive nitrogen dioxide sensor	(450 to 750)	< 25	0.1	20	Linear	Nd	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	NO ₂ /M-2E NO ₂ /M-2EG	Ab2	Miniature, 2-electrode nitrogen dioxide sensor	(230 to 370)	< 60	0.1	20	Linear	Nd	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	NO ₂ /M-500	Ab2	Miniature nitrogen dioxide sensor	(70 to 130)	< 40	0.5	500	Linear	1,000	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	3SP-NO ₂ -20	Ab3	15X15 ultra thin NO ₂ Sensor 20 ppm C Package 110-502/Pinned Package	(30 to 50)	< 15	< 20 ppb	20	---	---	> 5 years	(-40 to 50)	Atmospheric	15 - 90



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SO ₂	SO ₂ - D4	Ab1	Miniature sulfur dioxide sensor	(180 to 420)	< 15	< 0.2	20	< 5	50	> 24	(-20 to 50)	80 - 120	15 - 90
	SO ₂ - AF	Ab1	Small, filtered sulfur dioxide sensor	(300 to 550)	< 35	< 0.1	50	< ± 0.3	75	>24	(-30 to 50)	80 - 120	15 - 90
	SO ₂ - AE	Ab1	Small, high concentration sulfur dioxide sensor	(55 to 80)	< 30	< 1.5	2,000	0 to -80	10,000	> 24	(-30 to 50)	80 - 120	15 - 90
	SO ₂ - A4	Ab1	4 -Electrode, Small, low ppb sulfur dioxide sensor	(320 to 480)	< 20	15 ± 2 ppb	50	0 to -5	100	> 36	(-30 to 50)	80 - 120	15 - 90
	SO ₂ /M-100-2E	Ab2	Miniature, 2-Electrode sulfur dioxide sensor	(220 to 380)	< 30	0.5	100	Linear	200	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO ₂ /M-20	Ab2	Miniature, highly sensitive sulfur dioxide sensor	(410 to 590)	< 15	0.3	20	Linear	100	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO ₂ /M-2E	Ab2	Miniature, 2-Electrode sulfur dioxide sensor	(370 to 530)	< 30	0.5	20	Linear	100	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO ₂ MF-100	Ab2	Miniature, sulfur dioxide sensor with filter	(300 to 440)	< 20	0.2	100	Linear	500	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO ₂ /MF-1000	Ab2	Miniature, sulfur dioxide sensor with filter	(40 to 60)	< 25	2	1,000	Linear	5,000	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO ₂ /MF-10000	Ab2	Miniature sulfur Dioxide Sensor	(15 to 25)	< 30	2	10,000	Linear	20,000	24	(-20 to 50)	Atmospheric ± 10%	15 - 90



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	SO₂/MF-20	Ab2	Miniature, highly sensitive, sulfur dioxide sensor with filter	(410 to 590)	< 15	0.2	20	Linear	100	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	SO₂/MF-200	Ab2	Miniature, sulfur dioxide sensor with filter	(240 to 360)	< 20	0.25	200	Linear	600	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	SO₂/MF-2000	Ab2	Miniature, sulfur dioxide sensor with filter	(20 to 30)	< 20	4	2,000	Linear	5,000	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	3SP-SO₂-20	Ab3	15X15 ultra thin SO ₂ Sensor 20 ppm C Package 110-602/Pinned Package	(15 to 35)	< 15	< 20 ppb	20	---	---	> 5 years	(-30 to 50)	Atmospheric	15 - 90
	CO - D4	Ab1	Miniature, filtered carbon monoxide sensor	(30 - 55)	< 25	< 1.5	1,000	± 40	2,000	> 24	(-20 to 50)	80 - 120	15 - 90
	CO - CX	Ab1	Combustion, low hydrogen cross sensitivity carbon monoxide sensor	(55 to 110)	< 40	< 0.5	2,000	< ± 40	4,000	> 24	(-30 to 50)	80 - 120	15 - 90
	CO - CF	Ab1	Combustion, filtered carbon monoxide sensor	(55 to 90)	< 30	< 0.5	5,000	< ± 30	20,000	> 24	(-30 to 50)	80 - 120	15 - 90
	CO - CE	Ab1	Combustion, high concentration carbon monoxide sensor	(10 to 25)	< 75	< 5	10,000	< 500	100,000	> 24	(-30 to 50)	80 - 120	15 - 90
	CO - AX	Ab1	Small, low hydrogen cross sensitivity carbon monoxide sensor	(55 to 100)	< 30	< 0.5	2,000	< ± 40	4,000	> 24	(-30 to 50)	80 - 120	15 - 90



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CO	CO - AF	Ab1	Small, filtered carbon monoxide sensor	(55 to 90)	< 25	< 0.5	5,000	15 to 25	10,000	> 24	(-30 to 50)	80 - 120	15 - 90
	CO - AE	Ab1	Small, filtered, high concentration carbon monoxide sensor	(10 to 25)	< 50	< 5	10,000	< 0 to 500	100,000	> 24	(-30 to 50)	80 - 120	15 - 90
	CO - A4	Ab1	4 -Electrode, small, low ppb carbon dioxide sensor	(220 to 375)	< 20	20 ± 2 ppb	500	< ± 1	2,000	> 36	(-30 to 50)	80 - 120	15 - 90
	CO/MF 1000	Ab2	Miniature carbon monoxide sensor with filter	(35 to 65)	< 25	2	1,000	Linear	2,800	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	CO/MF 200	Ab2	Miniature carbon monoxide sensor with filter	(350 to 650)	< 25	0.15	200	< 5% full scale	500	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	CO/MF 2000	Ab2	Miniature carbon monoxide sensor with filter	(25 to 35)	< 25	4	2,000	Linear	4,500	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	CO/MF 2E	Ab2	2-Electrode miniature carbon monoxide sensor	(35 to 65)	< 25	1	300	Linear	Nd	>24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	CO/MF 500	Ab2	Miniature carbon monoxide sensor with filter	(50 to 90)	< 25	1	500	< 5% full scale	2,000	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	CO/MFA 500	Ab2	Miniature, highly sensitive carbon monoxide sensor	(55 to 85)	<25	1	500	Linear	Nd	24	(-20 to 50)	Atmospheric ± 10%	15 - 90



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CO ₂	3SP-CO-1000	Ab3	15X15 ultra thin CO Sensor 1000 ppm Package 110-10g/Pinned Package	(2 to 7.5)	< 30	< 100 ppb	1,000	---	5,000	> 5 years	(-30 to 55)	Atmospheric	15 - 90
	CO ₂ - D1	Ab1	Miniature solid state carbon dioxide sensor	6 to 10 per 0.5% to 5% CO ₂	2-4 mins for mV change	100	0.5% to 90% concentration	Logarithmic	---	12	(10 to 35)	80 - 120	15 - 90
	H ₂ S-D4	Ab1	Miniature hydrogen sulfide sensor	110-170	< 25	< 0.2	< ± 6	Linear	200	> 24	(-30 to 50)	80 - 120	15 - 90
	H ₂ S-AH	Ab1	Small, high sensitivity hydrogen sulfide sensor	(950 to 1450)	< 30	< 0.03	50	0 to -2.5	250	> 24	(-30 to 50)	80 - 120	15 - 90
	H ₂ S-AE	Ab1	Small, high concentration hydrogen sulfide sensor	(65 to 105)	< 25	< 0.5	2,000	0 to -40	10,000	> 24	(-30 to 50)	80 - 120	15 - 90
	H ₂ S-A4	Ab1	Small, 4-electrode, low ppb hydrogen sulfide sensor	(1200 to 1650)	< 45	15 ± 2 ppb	50	< ± 0.5	100	> 24	(-30 to 50)	80 - 120	15 - 90
H ₂ S	H ₂ S-A1	Ab1	Small hydrogen sulfide sensor	(550 to 875)	< 35	< 0.05	100	0 to -4	500	> 24	(-30 to 50)	80 - 120	15 - 90
	H ₂ S/M-100	Ab2	Miniature hydrogen sulfide sensor	(560 to 840)	< 25	0.1	100	Linear	Nd	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	H ₂ S/M-200-2E	Ab2	Miniature 2-electrode hydrogen sulfide sensor	(200 to 300)	< 60	0.2	200	Linear	Nd	24	(-40 to 50)	Atmospheric ± 10%	15 - 90



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O ₃	H ₂ S/M-2000	Ab2	Miniature hydrogen sulfide sensor	(40 to 60)	< 25	2	2,000	Linear	Nd	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	H ₂ S/M-50	Ab2	Miniature, highly sensitive hydrogen sulfide sensor	(950 to 1450)	< 25	0.05	50	Linear	Nd	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	H ₂ S/M-500	Ab2	Miniature hydrogen sulfide sensor	(80 to 120)	< 20	1	500	Linear	Nd	24	(-40 to 50)	Atmospheric ± 10%	15 - 90
	OX-A431	Ab1	Small, 4-electrode, low ppb ozone sensor	(-200 to -550)	< 45	15 ± 2 ppb	20	< ± 0.5	50	> 24	(-30 to 40)	80-120	15-85
	O ₃ /M-5	Ab2	Miniature, highly sensitive ozone sensor	(650 to 1350)	< 60	0.03	5	Linear	50	24	(-20 to 45)	Atmospheric ± 10%	15 - 90
	O ₃ /M-100	Ab2	Miniature ozone sensor	(350 to 450)	< 60	0.2	100	Linear	200	24	(-20 to 50)	Atmospheric ± 10%	15 - 90
	3SP-O ₃ -20	Ab3	15x15 O ₃ Sensor 20 ppm C Package 110-402/Pinned Package	(-42 to -22)	< 15	< 20 ppb	20	---	---	> 5 years	(-30 to 50)	Atmospheric	15 - 90
PM	OPC-N ₂	Ab1	Particulate Monitor	---	---	---	0.38 - 17 microns	---	10,000 particles /s	---	(-10 to 50)	---	0 to 99
HCL	HCL - A1	Ab1	Small hydrogen chloride sensor	(80 to 130)	< 300	< 1	100	0 to 6	200	Nd	(-30 to 50)	80 to 120	15-90
	HCL/M-20	Ab2	Miniature, highly sensitive hydrogen chloride sensor	(250 to 550)	< 40	0.2	20	Linear	Nd	24	(-20 to 45)	Atmospheric	15 to 90

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NH ₃	HCL/M-200	Ab2	Miniature, short response time hydrogen chloride sensor	(50 to 110)	< 60	1.5	200	Linear	400	24	(-20 to 45)	Atmospheric	15 to 90
	NH ₃ /MR-100	Ab2	Miniature, highly sensitive ammonia sensor	(80 to 140)	< 40	1	100	< 5% full scale	200	24	(-10 to 40)	Atmospheric	15 to 90
	NH ₃ /MR-100-2E	Ab2	Miniature, 2-electrode ammonia sensor	(38 to 62)	< 60	2	100	Linear	Nd	24	(-10 to 50)	Atmospheric ± 10%	15 to 90
	NH ₃ /MR-1000	Ab2	Miniature, short response time ammonia sensor	(16 to 34)	< 35	4	1,000	< 5% full scale	Nd	24	(-10 to 50)	Atmospheric	15 to 90
	NH ₃ /MR-1000-2E	Ab2	Miniature, 2-electrode ammonia sensor	(12 to 26)	< 35	8	1,000	Linear	Nd	24	(-10 to 50)	Atmospheric ± 10%	15 to 90
	NH ₃ /MR-10000	Ab2	Miniature ammonia sensor	(1.9 to 3.1)	< 35	40	10,000	< 5% full scale	Nd	24	(-10 to 50)	Atmospheric	15 to 90
	NH ₃ /MR-2000	Ab2	Miniature, short response time ammonia sensor	(8 to 16)	< 35	4	2,000	< 5% full scale	Nd	24	(-10 to 50)	Atmospheric	15 to 90
	NH ₃ /MR-500	Ab2	Miniature, short response time ammonia sensor	(20 to 50)	< 35	3	500	< 5% full scale	Nd	24	(-10 to 50)	Atmospheric	15 to 90
	NH ₃ /MR-5000	Ab2	Miniature, short response time ammonia sensor	(3.2 to 6.8)	< 35	10	5,000	< 5% full scale	Nd	24	(-10 to 50)	Atmospheric	15 to 90