

SemeaTech Product List

Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS1 (µA/ppm)	SENS1 MIN (µA/ppm)	SENS1 MAX (µA/ppm)	R. GAIN (Kohm)	NOMINAL FULL SCALE ΔV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes		
CO		4CO-50	051-1200-000	≤30	0	50	100	0.15	+	0.5000	0.4000	0.6000	33.20	0.830	0.664	0.996	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
		4CO-100	051-1100-000	≤30	0	100	200	0.5	+	0.4000	0.3000	0.5000	20.00	0.800	0.600	1.000	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
		4CO-500S	051-0400-000	≤15	0	500	2000	1	+	0.0750	0.0500	0.0950	21.00	0.798	0.578	0.998	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	Fast Response		
		4CO-1000S	051-1600-000	≤15	0	1000	2000	2	+	0.0600	0.0450	0.0750	13.30	0.798	0.599	0.998	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	Fast Response		
		4CO-2000	051-0100-000	≤30	0	2000	5000	5	+	0.0280	0.0180	0.0380	13.00	0.728	0.468	0.988	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
		4CO-2000CT	051-2000-000	≤15	0	2000	2000	0.06	+	0.0750	0.0550	0.0950	5.23	0.785	0.575	0.994	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	Applicable to High Concentration Environment		
		4CO-5000	051-0900-000	≤30	0	5000	10000	8	+	0.0250	0.0150	0.0350	5.62	0.703	0.422	0.984	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
		4CO-10000	051-0800-000	≤30	0	10000	20000	10	+	0.0175	0.0100	0.0250	4.02	0.704	0.402	1.005	-40~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4CO-20000	051-1000-000	≤30	0	20000	20000	10	+	0.0175	0.0100	0.0250	2.00	0.700	0.400	1.000	-40~50°C	15% ~ 90%RH	2 Years in air	12 months			
		H2S		4H2S-50	052-0400-000	≤25	0	50	100	0.08	+	1.2000	0.9500	1.4500	13.80	0.828	0.656	1.001	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	
4H2S-100	052-0000-000			≤30	0	100	500	0.1	+	0.8000	0.6000	1.0000	10.00	0.800	0.600	1.000	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
4H2S-100HT	052-2000-000			≤60	0	100	100	0.1	+	0.1500	0.1000	0.2000	49.90	0.749	0.499	0.998	-20~65°C	15% ~ 90%RH	1 Year in air	12 months	High Temperature Resistance		
4H2S-100S	052-5100-000			≤25	0	100	200	0.1	+	0.6000	0.4500	0.7500	13.30	0.798	0.599	0.998	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	Fast Response		
4H2S-500	052-1500-000			≤30	0	500	1000	0.5	+	0.6500	0.5000	0.8000	2.50	0.813	0.625	1.000	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
4H2S-1000	052-0100-000			≤45	0	1000	2000	1	+	0.1050	0.0500	0.1600	8.19	0.650	0.310	0.990	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
4H2S-2000	052-0600-000			≤45	0	2000	4000	2	+	0.0900	0.0500	0.1300	3.80	0.684	0.380	0.988	-40~50°C	15% ~ 90%RH	2 Years in air	24 months			
4H2S-5000	052-0700-000			≤45	0	5000	10000	5	+	0.0800	0.0600	0.1000	2.00	0.800	0.600	1.000	-40~50°C	15% ~ 90%RH	2 Years in air	12 months			
4O2-LF	053-0000-000			≤15	-600	0~25%vco	30%vol	0.1%vol		100 µA in air	80 µA in air	120 µA in air	8.25	0.825	0.660	0.990	-40~50°C	15% ~ 90%RH	5 Years in air	36 months	Long Life Non-depleting		
4O2-LF-M	052-0200-000			≤15	-600	0~30	100	0.05	+	90.0000	66.0000	114.0000	0.29	0.794	0.582	1.000	-40~50°C	15% ~ 90%RH	5 Years in air	36 months	Long Life Non-depleting		
H2		4H2-1000	054-0000-000	≤70	0	1000	2000	5	+	0.0200	0.0100	0.0300	33.20	0.664	0.332	0.996	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4H2-1000S	054-000A-000	≤25	0	1000	2000	0.5	+	0.0200	0.0100	0.0300	33.20	0.664	0.332	0.996	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4H2-2000	054-0400-000	≤70	0	2000	4000	5	+	0.0180	0.0080	0.0280	17.80	0.641	0.285	0.997	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4H2-2000S	054-040A-000	≤25	0	2000	4000	0.8	+	0.0180	0.0080	0.0280	17.80	0.641	0.285	0.997	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4H2-40000	054-0100-000	≤60	0	40000	40000	50	+	0.0070	0.0050	0.0090	2.80	0.784	0.560	1.008	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4H2-40000A	054-010A-000	≤60 s	0	40000	40000	1	+	0.0070	0.0050	0.0090	2.80	0.784	0.560	1.008	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	No cross-sensitivity to CO		
		4ETO-10	055-0000-000	≤120	0	10	100	0.1	+	1.9000	1.1000	2.7000	37.00	0.703	0.407	0.999	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4ETO-100	055-0100-000	≤120	0	100	500	1	+	0.2500	0.1250	0.3750	26.70	0.668	0.334	1.001	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4ETO-500	055-0200-000	≤120	0	500	1000	10	+	0.0580	0.0250	0.0910	22.00	0.638	0.275	1.001	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4SO2-5	056-0400-000	≤45	0	5	20	0.05	+	0.5500	0.4000	0.7000	287.00	0.789	0.574	1.005	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
SO2		4SO2-20	056-0000-000	≤45	0	20	150	0.1	+	0.5000	0.4000	0.6000	82.50	0.825	0.660	0.990	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4SO2-20S	056-000A-000	≤15	0	20	150	0.01	+	0.5000	0.4000	0.6000	82.50	0.825	0.660	0.990	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4SO2-20B	056-1000-000	≤60	0	20	40	0.02	+	0.5500	0.3500	0.5500	90.90	0.818	0.636	1.000	-20~65°C	5% ~ 95%RH	2 Years in air	12 months	Resistant to Extreme Environments		
		4SO2-20BF	056-0900-000	≤90	0	20	40	0.02	+	0.4000	0.3000	0.5000	100.00	0.800	0.600	1.000	-20~60°C	5% ~ 95%RH	2 Years in air	12 months	Resistant to Extreme Environments		
		4SO2-100S	056-050A-000	≤15	0	100	500	0.015	+	0.3700	0.3000	0.4400	22.60	0.836	0.678	0.994	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	No cross-sensitivity to H2S		
		4SO2-2000S	056-010A-000	≤35	0	2000	4000	0.5	+	0.0200	0.0120	0.0280	18.00	0.720	0.432	1.008	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		NO2		4NO2-5AOF	057-0300-000	≤90	0	5	20	0.05	-	0.6500	0.4500	0.8500	235.00	0.764	0.529	0.999	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	No cross-sensitivity to SO2 and O3
				4NO2-20	057-0000-000	≤30	0	20	250	0.008	-	0.6000	0.4500	0.7500	66.00	0.792	0.594	0.990	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	
				4NO2-20AF	057-0700-000	≤30 s	0	20	250	0.1	-	0.6000	0.4500	0.7500	66.50	0.798	0.599	0.998	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	No cross-sensitivity to SO2 and H2S
				4NO2-20A	057-0800-000	≤30 s	0	20	250	0.1	-	0.6000	0.4500	0.7500	66.50	0.798	0.599	0.998	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	No cross-sensitivity to SO2
NO		4NO2-2000	057-0100-000	≤60	0	2000	4000	0.2	-	0.0200	0.0100	0.0300	16.80	0.672	0.336	1.008	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4NO-5	058-0300-000	≤30	0	5	20	0.25	+	1.0000	0.6000	1.4000	143.00	0.715	0.429	1.001	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4NO-5U	058-5000-000	≤30	0	5	20	0.005	+	0.9000	0.6000	1.2000	165.00	0.743	0.495	0.990	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	Zero Bias		
		4NO-200U	058-5100-000	≤30	0	200	200	0.01	+	0.3000	0.2000	0.4000	12.40	0.744	0.496	0.992	-20~50°C	15% ~ 90%RH	2 Years in air	12 months	Zero Bias		
		4NO-250S	058-000A-000	≤15	0	250	1000	0.5	+	0.4000	0.3000	0.5000	8.00	0.890	0.600	1.000	-40~55°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4NO-2000	058-0100-000	≤60	0	2000	4000	2	+	0.1300	0.0700	0.1900	2.61	0.679	0.365	0.992	-20~50°C	15% ~ 90%RH	2 Years in air	12 months			
		4NH3-20S	059-3300-000	≤45	0	20	50	0.1	+	0.1500	0.1150	0.1850	267.00	0.801	0.614	0.988	-40~40°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4NH3-100S	059-1900-000	≤40	0	100	200	0.2	+	0.1350	0.1000	0.1700	59.00	0.797	0.590	1.003	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4NH3-100L	059-1200-000	≤45	0	100	200	0.2	+	0.1350	0.1000	0.1700	59.00	0.797	0.590	1.003	-40~40°C	15% ~ 90%RH	5 Years in air	24 months	Long Life Non-depleting		
		4NH3-200L	059-2000-000	≤75	0	200	400	1	+	0.0900	0.0720	0.1080	46.40	0.835	0.668	1.002	-40~40°C	15% ~ 90%RH	5 Years in air	24 months	Long Life Non-depleting		
NH3		4NH3-500S	059-2100-000	≤40	0	500	1000	0.5	+	0.0350	0.0200	0.0500	40.20	0.704	0.402	1.005	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4NH3-500L	059-1100-000	≤85	0	500	1000	2	+	0.0350	0.0200	0.0500	40.20	0.704	0.402	1.005	-40~40°C	15% ~ 90%RH	5 Years in air	24 months	Long Life Non-depleting		
		4NH3-1000S	059-2200-000	≤40	0	1000	2000	1	+	0.0250	0.0170	0.0330	30.10	0.753	0.512	0.993	-40~50°C	15% ~ 90%RH	2 Years in air	12 months	Fast Response		
		4NH3-1000L	059-1300-000	≤110	0	1000	2000	2	+	0.0250	0.0170	0.0330	30.10	0.753	0.512	0.993	-40~40°C	15% ~ 90%RH	5 Years in air	24 months	Long Life Non-depleting		
		4NH3-2000	059-0600-000	≤90	0	2000																	

CIO2	ACIO2-1	061-0100-000	≤60	0	1	10	0.03	-	0.6500	0.3500	0.9500	1050.00	0.683	0.368	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	
	ACIO2-10	061-0400-000	≤60	0	10	50	0.15	-	0.6000	0.4000	0.8000	124.00	0.744	0.496	0.992	-20~50°C	15%~90%RH	2 Years in air	12 months	
CI2	ACI2-50	061-0000-000	≤60	0	100	100	0.1	-	0.4000	0.2000	0.5000	34.80	0.696	0.383	1.009	-20~50°C	15%~90%RH	2 Years in air	12 months	
	ACI2-10	062-0100-000	≤30	0	10	50	0.05	-	0.7500	0.6000	0.9000	110.00	0.825	0.660	0.990	-40~50°C	15%~90%RH	2 Years in air	12 months	
HCL	ACI2-20	062-0600-000	≤30	0	20	50	0.1	-	0.5500	0.3500	0.7500	66.50	0.732	0.466	0.998	-40~50°C	15%~90%RH	2 Years in air	12 months	
	ACI2-50	062-0000-000	≤30	0	50	100	0.1	-	0.4500	0.2500	0.6500	30.90	0.695	0.386	1.004	-40~50°C	15%~90%RH	2 Years in air	12 months	
HCL	ACI2-200	062-0200-000	≤30	0	200	400	0.2	-	0.1800	0.1300	0.2300	22.00	0.792	0.572	1.012	-40~50°C	15%~90%RH	2 Years in air	12 months	
	ACI2-20	063-0500-000	≤70	0	20	50	0.5	-	0.3500	0.2000	0.5000	100.00	0.700	0.400	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
HCL	4HCI-20U	063-5000-000	≤75	0	20	50	0.06	+	0.3500	0.2000	0.5000	100.00	0.700	0.400	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
	4HCI-50U	063-0000-000	≤70	0	50	100	0.1	+	0.3000	0.2000	0.4000	49.90	0.749	0.499	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
HCL	4HCI-50U	063-1100-000	≤75	0	50	100	0.1	+	0.3000	0.2000	0.4000	49.90	0.749	0.499	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
	4HCI-200	063-0200-000	≤60	0	200	400	0.3	+	0.0800	0.0500	0.1100	45.30	0.725	0.453	0.997	-20~50°C	15%~90%RH	2 Years in air	12 months	
HCN	4HCN-10S	064-1100-000	≤105	0	10	10	0.1	+	0.1000	0.0800	0.1200	845.00	0.845	0.676	1.014	-20~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
	4HCN-50S	064-1000-000	≤105	0	50	50	0.2	+	0.0650	0.0450	0.0850	237.00	0.770	0.533	1.007	-20~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
CH3SH	4CH3SH-10	065-0000-000	≤60	0	10	20	0.1	+	0.7000	0.5500	0.8500	118.00	0.826	0.603	1.003	-20~50°C	15%~90%RH	2 Years in air	12 months	
THT	4THT-50	066-0000-000	≤60	0	20	50	0.1	+	0.1500	0.0500	0.2500	80.60	0.605	0.205	1.005	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4THT-20	067-0200-000	≤60	0	20	50	0.1	+	0.5000	0.3000	0.7000	71.00	0.710	0.426	0.994	-20~50°C	15%~90%RH	2 Years in air	12 months	
C2H3Cl	4C2H3Cl-100	067-0000-000	≤120	0	100	200	1.5	+	0.1850	0.1000	0.2700	37.00	0.685	0.299	0.999	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4O3-1	068-0400-000	≤45	0	1	10	0.03	-	2.0000	1.0500	2.9500	340.00	0.680	0.357	1.003	-40~50°C	15%~90%RH	2 Years in air	12 months	
O3	4O3-10	068-0000-000	≤45	0	10	50	0.05	-	0.8500	0.6000	1.1000	90.00	0.765	0.540	0.990	-40~50°C	15%~90%RH	2 Years in air	12 months	
	4O3-100	068-0100-000	≤45	0	100	200	0.1	-	0.5500	0.3500	0.7500	13.30	0.732	0.466	0.998	-40~50°C	15%~90%RH	2 Years in air	12 months	
HF	4HF-10	069-0800-000	≤60	0	1000	1000	0.5	-	0.1700	0.1400	0.2000	4.99	0.848	0.699	0.998	-40~50°C	15%~90%RH	2 Years in air	12 months	
	4HF-10	069-0000-000	≤120	0	10	50	0.2	-	0.3000	0.2000	0.4000	250.00	0.750	0.500	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
H2O2	4HF-100	069-0100-000	≤130	0	100	100	0.1	+	0.1500	0.1000	0.2000	49.90	0.749	0.499	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4H2O2-10	070-0200-000	≤120	0	10	20	0.01	+	0.5000	0.3000	0.7000	143.00	0.715	0.429	1.001	-20~50°C	15%~90%RH	2 Years in air	12 months	
H2O	4H2O-20	071-0100-000	≤90	0	20	50	0.6	+	0.1000	0.1000	0.2000	226.00	0.723	0.452	0.994	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4H2O-20	072-0000-000	≤90	0	10	20	0.05	+	2.0000	1.0000	3.0000	33.00	0.660	0.330	0.990	-20~50°C	15%~90%RH	2 Years in air	12 months	
Bi2	4CH2O-50	072-0100-000	≤90	0	50	100	0.1	+	0.5500	0.4000	0.7000	28.70	0.789	0.574	1.005	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4Br2-1	073-0000-000	≤75	0	1	5	0.01	-	0.2500	0.2000	0.3000	2000.00	0.500	0.400	0.600	-20~50°C	15%~90%RH	1 Year in air	12 months	
C2H2	4Br2-20	073-0100-000	≤75	0	10	20	0.01	-	0.2000	0.1500	0.2500	402.00	0.804	0.603	1.005	-20~50°C	15%~90%RH	1 Year in air	12 months	
	4Br2-100	073-0100-000	≤75	0	100	100	0.015	-	0.1500	0.1000	0.2000	49.90	0.749	0.499	0.998	-20~50°C	15%~90%RH	1 Year in air	12 months	
C2H4	4C2H2-10	075-0100-000	≤70	0	10	20	0.5	+	0.2000	0.1000	0.3000	332.00	0.664	0.332	0.996	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4C2H2-100	075-0000-000	≤75	0	100	200	1	+	0.1000	0.0700	0.1300	76.80	0.768	0.538	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	
C2H4	4C2H2-200	075-0200-000	≤90	0	200	200	1	+	0.0650	0.0450	0.0850	59.00	0.767	0.531	1.003	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4C2H4-10	076-0100-000	≤90	0	10	20	0.5	+	0.4000	0.1000	0.7000	143.00	0.672	0.143	1.001	-20~50°C	15%~90%RH	2 Years in air	12 months	
COCL2	4C2H4-100	076-0200-000	≤90	0	100	200	0.8	+	0.1000	0.0800	0.1200	82.50	0.825	0.660	0.990	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4C2H4-200	076-0000-000	≤90	0	200	500	1	+	0.0650	0.0400	0.0900	56.20	0.731	0.450	1.012	-20~50°C	15%~90%RH	2 Years in air	12 months	
ASH3	4COCL2-1	077-0000-000	≤60	0	1	1	0.01	-	0.1800	0.1200	0.2400	2000.00	0.360	0.240	0.480	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4COCL2-3	077-0200-000	≤90	0	3	30	0.01	-	0.2250	0.1500	0.3000	1000.00	0.675	0.450	0.900	-20~50°C	15%~90%RH	2 Years in air	12 months	
SIH4	4AsH3-1	078-0000-000	≤60	0	1	3	0.02	+	3.0000	2.4000	3.6000	280.00	0.840	0.540	1.008	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4AsH3-10	078-0100-000	≤60	0	10	10	0.1	+	0.6000	0.4000	0.8000	127.00	0.762	0.508	1.016	-20~50°C	15%~90%RH	2 Years in air	12 months	
GeH4	4SiH4-10	079-0100-000	≤30	0	10	20	0.01	+	1.5000	1.0000	2.0000	40.00	0.749	0.499	0.998	-20~50°C	15%~90%RH	1 Years in air	12 months	
	4SiH4-50	079-0100-000	≤30	0	50	100	0.01	+	0.6000	0.4000	0.8000	24.90	0.747	0.498	0.996	-20~50°C	15%~90%RH	1 Years in air	12 months	
NH4	4GeH4-1	081-0000-000	≤45	0	1	1	0.005	+	3.0000	2.4000	3.6000	280.00	0.840	0.540	1.008	-20~50°C	15%~90%RH	2 Years in air	12 months	
	4NH4-1	082-0000-000	≤100	0	1	3	0.002	+	5.0000	3.5000	6.5000	158.00	0.790	0.672	1.027	-20~50°C	15%~90%RH	2 Years in air	12 months	

Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS. (µA/ppm)	SENSI.MIN (µA/ppm)	SENSI.MAX (µA/ppm)	R_GAIN (kohm)	NOMINAL FULL SCALE (µV/V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating life	Warranty	Notes
4S SMT	H2S	4SM H2S-50	052-6000-000	≤25	0	50	100	0.01	+	1.2500	1.0000	1.5000	13.30	0.831	0.665	0.998	0~40°C	5%~90%RH non-condensin	2 years in air	24 months	Applicable to semiconductor fabrication industry
	SO2	4SM SO2-20	056-6000-000	≤60	0	20	40	0.01	+	0.4000	0.3000	0.5000	100.00	0.800	0.600	1.000	0~40°C	5%~90%RH non-condensin	2 years in air	24 months	Applicable to semiconductor fabrication industry
	CI2	4SM CI2-5	062-6000-000	≤45	0	5	10	0.008	-	0.7500	0.5500	0.9500	210.00	0.788	0.578	0.998	10~30°C	15%~90%RH	6 Months in air	24 months	Applicable to semiconductor fabrication industry
	HCL	4SM HCL-10	063-6000-000	≤140	0	10	20	0.003	-	0.5500	0.4000	0.7000	143.00	0.787	0.572	1.001	10~30°C	5%~90%RH non-condensin	2 years in air	24 months	Applicable to semiconductor fabrication industry
TEOS	44SM TEOS-50	085-6000-000	≤120	+300 mV	50	100	0.1	+	0.8500	0.4500	1.2500	15.80	0.672	0.356	0.988	0~40°C	5%~90%RH non-condensin	2 years in air	24 months	Applicable to semiconductor fabrication industry	

Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS. (µA/ppm)	SENSI.MIN (µA/ppm)	SENSI.MAX (µA/ppm)	R_GAIN (kohm)	NOMINAL FULL SCALE (µV/V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating life	Warranty	Notes
CO	7CO-50	051-1300-000	≤30	0	50	100	0.1	+	0.4000	0.3000	0.5000	40.20	0.804	0.603	1.005	-20~50°C	15%~90%RH	2 Years in air	24 months		
	7CO-100	051-1400-000	≤30	0	100	200	0.1	+	0.2500	0.1500	0.3500	28.70	0.718	0.431	1.005	-20~50°C	15%~90%RH	2 Years in air	24 months		
H2S	7CO-1000	051-0200-000																			

75	7NO	7NO-100	057-0500-000	≤40	0	100	500	0.01	-	0.5500	0.4400	0.6600	15.00	0.825	0.660	0.990	-40~50°C	15%~90%RH	2 Years in air	12 months	
		7NO-500	057-0600-000	≤60	0	500	1000	0.015	-	0.3500	0.2500	0.4500	4.42	0.774	0.553	0.995	-40~50°C	15%~90%RH	2 Years in air	12 months	
	NO	7NO-100S	058-020A-000	≤15	300	100	1500	0.03	+	0.5500	0.4400	0.6600	15.00	0.825	0.660	0.990	-40~55°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NO-100U	058-5A00-000	≤30	0	100	100	0.008	+	0.2700	0.2000	0.3400	23.40	0.794	0.588	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
	NH3	7NH3-50S	059-260A-000	≤45	0	50	100	0.2	+	0.1500	0.1200	0.1800	110.00	0.825	0.660	0.990	-40~55°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NH3-100L	059-1600-000	≤90	0	100	100	1	+	0.1300	0.1000	0.1600	61.90	0.805	0.619	0.990	-40~40°C	15%~90%RH	5 Years in air	24 months	Long Life Non-depleting
		7NH3-100S	059-2300-000	≤45	0	100	200	0.3	+	0.1300	0.1000	0.1600	61.90	0.805	0.619	0.990	-40~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NH3-200S	059-2800-000	≤45	0	200	500	0.5	+	0.0900	0.0720	0.1080	46.40	0.835	0.668	1.002	-40~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NH3-300L	059-2700-000	≤90	0	200	200	1	+	0.0900	0.0720	0.1080	46.40	0.835	0.668	1.002	-40~40°C	15%~90%RH	5 Years in air	24 months	Long Life Non-depleting
		7NH3-500S	059-2400-000	≤55	0	500	1000	1	+	0.0350	0.0200	0.0500	40.20	0.704	0.402	1.005	-40~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NH3-500L	059-1700-000	≤90	0	500	1000	2	+	0.0350	0.0200	0.0500	40.20	0.704	0.402	1.005	-40~40°C	15%~90%RH	5 Years in air	24 months	Long Life Non-depleting
		7NH3-1000S	059-2500-000	≤45	0	1000	2000	2	+	0.0250	0.0170	0.0330	30.10	0.753	0.512	0.993	-40~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
		7NH3-1000L	059-3200-000	≤120	0	1000	2000	2	+	0.0250	0.0170	0.0330	30.90	0.773	0.525	1.020	-40~40°C	15%~90%RH	5 Years in air	24 months	Long Life Non-depleting
		7NH3-2000S	059-1000-000	≤45	0	2000	2000	5	+	0.0080	0.0040	0.0120	42.20	0.675	0.338	1.013	-40~50°C	15%~90%RH	2 Years in air	12 months	Fast Response
	PH3	7PH3-5	060-0300-000	≤30	0	5	20	0.02	+	2.0000	1.5000	2.5000	80.00	0.800	0.600	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7PH3-2000	060-0200-000	≤60	0	2000	4000	1	+	0.0700	0.0300	0.1100	4.53	0.634	0.272	0.997	-20~50°C	15%~90%RH	2 Years in air	12 months	
	ClO2	7ClO2-1	061-0200-000	≤60	0	1	10	0.05	-	0.8000	0.6000	1.0000	1000.00	0.800	0.600	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7ClO2-20	061-0300-000	≤60	0	20	50	0.1	-	0.7000	0.5000	0.9000	56.00	0.784	0.560	1.008	-20~50°C	15%~90%RH	2 Years in air	12 months	
	Cl2	7Cl2-20	062-0300-000	≤45	0	20	50	0.05	-	1.0000	0.7500	1.2500	40.20	0.804	0.603	1.005	-40~55°C	15%~90%RH	2 Years in air	12 months	
		7Cl2-50	063-0400-000	≤45	0	50	100	0.1	-	0.8500	0.6000	0.1100	182.00	0.725	0.460	1.001	-40~55°C	15%~90%RH	2 Years in air	12 months	
	HCl	7HCl-20	063-0400-000	≤70	200	20	50	0.5	+	0.5500	0.4000	0.7000	71.50	0.787	0.572	1.001	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7HCl-20U	063-080S-000	≤75 s	0	20	50	0.04	+	0.3500	0.5000	0.2000	249.00	1.743	2.490	0.996	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
		7HCl-50	063-0100-000	≤70	200	50	100	0.5	+	0.4500	0.3000	0.6000	33.00	0.743	0.495	0.990	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7HCl-50U	063-090S-000	≤75 s	0	50	50	0.05	+	0.3000	0.4000	0.2000	100.00	1.500	2.000	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	Zero Bias
	HCN	7HCN-100	063-0300-000	≤70	200	100	200	1	+	0.3000	0.2000	0.4000	25.00	0.750	0.500	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7HCN-50s	064-1200-000	≤10S	0	50	50	0.2	+	0.0550	0.0400	0.0700	287.00	0.789	0.574	1.005	-20~50°C	15%~90%RH	2 Years in air	12 months	
	CH3SH	7CH3SH-10	065-0100-000	≤60	0	10	20	0.1	+	0.7500	0.5000	0.9500	105.00	0.788	0.578	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7THT-50	066-0100-000	≤60	300	50	100	0.3	+	0.1500	0.0500	0.2500	80.60	0.605	0.202	1.008	-20~50°C	15%~90%RH	2 Years in air	12 months	
	C2H3Cl	7C2H3Cl-50	067-0300-000	≤120	300	50	100	1	+	0.4000	0.2000	0.6000	33.00	0.660	0.330	0.990	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7C2H3Cl-100	067-0100-000	≤120	300	100	200	1.5	+	0.1850	0.1000	0.2700	37.40	0.692	0.374	1.010	-20~50°C	15%~90%RH	2 Years in air	12 months	
	O3	7O3-1	068-0300-000	≤45	0	1	10	0.02	-	2.0000	1.0500	2.9500	340.00	0.680	0.357	1.003	-40~50°C	15%~90%RH	2 Years in air	12 months	
		7O3-20	068-0200-000	≤45	0	20	50	0.05	-	1.0000	0.7500	1.2500	40.20	0.804	0.603	1.005	-40~50°C	15%~90%RH	2 Years in air	12 months	
		7O3-100	068-0500-000	≤45	0	100	200	0.1	-	0.4500	0.3000	0.5000	13.30	0.732	0.466	0.998	-40~50°C	15%~90%RH	2 Years in air	12 months	
	HF	7HF-10	069-0300-000	≤120	0	10	50	0.2	-	0.4000	0.3000	0.5000	200.00	0.800	0.600	1.000	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7HF-50	069-0200-000	≤120	0	50	100	0.5	-	0.3000	0.2000	0.4000	49.90	0.749	0.499	0.998	-20~50°C	15%~90%RH	2 Years in air	12 months	
	H2O2	7H2O2-10	070-0300-000	≤100	0	10	20	0.005	+	0.7000	0.5000	0.9000	110.00	0.770	0.550	0.990	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7H2O2-100	070-0000-000	≤75	0	100	100	0.01	+	0.5000	0.3500	0.6500	15.80	0.790	0.553	1.027	-20~50°C	15%~90%RH	2 Years in air	12 months	
	CH2O	7CH2O-10	072-0200-000	≤90	0	10	50	0.05	+	2.0000	1.0000	3.0000	33.20	0.664	0.332	0.996	-20~50°C	15%~90%RH	2 Years in air	12 months	
		7CH2O-50	072-0300-000	≤90	0	50	100	0.1	+	0.5500	0.4000	0.7000	28.70	0.789	0.574	1.005	-20~50°C	15%~90%RH	2 Years in air	12 months	

Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS1 (µA/ppm)	SENS1 MIN (µA/ppm)	SENS1 MAX (µA/ppm)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes	
35	CO	3CO-2000	051-3200-000	≤30	0	2000	3000	1	+	0.1000	0.0800	0.1200	4.22	0.844	0.675	1.013	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
		3CO-10000	051-3000-000	≤30	0	10000	20000	1	+	0.0300	0.0240	0.0360	2.80	0.840	0.672	1.008	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
		3CO-10000CT	051-3000-100	≤30	0	10000	20000	1	+	0.0300	0.0240	0.0360	2.80	0.840	0.672	1.008	-20~50°C	15% ~ 90%RH	3 Years in air	12 months	Applicable to High Concentration Environment (Flue)	
	SO2	3SO2-20000	051-3100-000	≤35	0	20000	20000	1	+	0.0150	0.0110	0.0190	2.80	0.840	0.616	1.064	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
		3SO2-500	056-3100-000	≤35	0	500	500	1	+	0.3700	0.3000	0.4400	4.53	0.838	0.680	0.997	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
		3SO2-2000	056-3000-000	≤35	0	2000	5000	1	+	0.1000	0.0800	0.1200	4.22	0.844	0.675	1.013	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
	NO2	3NO2-2000CT	056-3000-100	≤35	0	2000	5000	1	+	0.1000	0.0800	0.1200	4.22	0.844	0.675	1.013	-20~50°C	15% ~ 90%RH	3 Years in air	12 months	Applicable to High Concentration Environment (Flue)	
		3NO2-500	057-3000-000	≤35	0	500	1000	0.5	-	0.3700	0.3000	0.4400	4.53	0.838	0.680	0.997	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
		3NO2-500CT	057-3000-100	≤35	0	500	1000	0.5	-	0.3700	0.3000	0.4400	4.53	0.838	0.680	0.997	-20~50°C	15% ~ 90%RH	3 Years in air	12 months	Applicable to High Concentration Environment (Flue)	
	NO	3NO-2000	058-3000-000	≤25	300	2000	5000	1	+	0.1000	0.0800	0.1200	4.22	0.844	0.675	1.013	-20~50°C	15% ~ 90%RH	3 Years in air	12 months		
3NO-2000CT		058-3000-100	≤25	300	2000	5000	1	+	0.1000	0.0800	0.1200	4.22	0.844	0.675	1.013	-20~50°C	15% ~ 90%RH	3 Years in air	12 months	Applicable to High Concentration Environment (Flue)		
Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS1 (µA/ppm)	SENS1 MIN (µA/ppm)	SENS1 MAX (µA/ppm)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes	
mini	CO	mini CO-1000	051-5000-000	≤ 25	0	1000	1500	0.18	+	0.0450	0.0300	0.0600	16.50	0.743	0.495	0.990	-40~50°C	15% ~ 90%RH	2 Years in air	24 months		
	H2S	mini H2S-100S	052-5000-000	≤ 25	0	100	100	0.05	+	0.1400	0.1100	0.1700	59.00	0.826	0.649	1.003	-40~50°C	15% ~ 90%RH	2 Years in air	24 months		
	O2	mini O2-LF	053-5000-000	≤ 15	-600mV	25	30	0.1% vol	-	100 µA in air	80 µA in air	120 µA in air	8.25	0.825	0.660	0.990	-40~50°C	15% ~ 90%RH	2 Years in air	24 months	Lead Free	
	ETO	mini ETO-100	055-5000-000	≤ 120	300mV	100	500	0.5	+	0.1300	0.0700	0.1900	52.30	0.680	0.366	0.994	-20~50°C	15% ~ 90%RH	2 Years in air	12 months		
	SO2	mini SO2-20B	056-5000-000	≤ 60	0	20	40	0.03	+	0.2500	0.1500	0.3500	143.00	0.715	0.429	1.001	-20~50°C	15% ~ 90%RH	2 Years in air	12 months		
	NO2	mini NO2-20A	057-5000-000	≤ 35	0	20	50	0.03	-	0.2300	0.1100	0.3500	143.00	0.658	0.315	1.001	-20~50°C	15% ~ 90%RH	1 Years in air	12 months		
	NH3	mini NH3-100L	059-5100-001	≤ 60	0	100	200	0.08	+	0.0500	0.0300	0.0700	150.00	0.750	0.450	1.050	-20~50°C	15% ~ 95%RH	2 Years in air	24 months	Long Life Non-depleting	
	Cl2	mini Cl2-20	062-5000-000	≤ 35	0	20	50	0.05	-	0.2500	0.1500	0.3500	143.00	0.715	0.429	1.001	-20~50°C	15% ~ 90%RH	2 Years in air	12 months		
Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (%)	Max Overload (%)	Resolution (ppb)	Polarity	NORMAL SENS1 (mV/%CH4)	SENS1 MIN (mV/%CH4)	SENS1 MAX (mV/%CH4)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes	
mini	LEL	mini LEL-2.5V	090-5000-000	< 10	2.5±0.1VDC	100%	100%	1%LEL	+	43.0000	35.0000	51.0000	/	/	/	/	-30~50°C	≤ 95%RH (25°C)	3 Years in air	12 months		
Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (%)	Max Overload (%)	Resolution (ppb)	Polarity	NORMAL SENS1 (mV/%CH4)	SENS1 MIN (mV/%CH4)	SENS1 MAX (mV/%CH4)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes	
45 Combustible	LEL	4EL-3.0	090-R000-000	< 30	/	100	100%	0.01	+	22.0000	15.0000	29.0000	/	/	/	/	-30~50°C	0% ~ 90%RH	2 years in air	12 months		
Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppb)	Polarity	NORMAL SENS1 (µA/ppm)	SENS1 MIN (µA/ppm)	SENS1 MAX (µA/ppm)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes	
7E4	CO	7E4-CO-10	051-1900-200	≤35	0	10	100	15	+	0.3000	0.2000	0.4000	249.00	0.747	0.498	0.996	-40~50°C	15% ~ 90%RH	3 Years in air	24 months		
		7E4-CO-20	051-2400-200	≤ 35	0	20	100	15	+	0.3000	0.2000	0.4000	124.00	0.744	0.496	0.992	-40~50°C	15% ~ 90%RH	3 Years in air	24 months		
	SO2	7E4-SO2-5	056-0600-200	≤60	0	5	20	10	+	0.4000	0.2000	0.6000	330.00	0.660	0.330	0.990	-40~55°C	15% ~ 90%RH	3 Years in air	24 months		
		7E4-SO2-5	057-0400-200	≤60	0	5	20	10	-	0.5000	0.3500	0.6500	309.00	0.773	0.541	1.004	-40~55°C	15% ~ 90%RH	3 Years in air	24 months		
	O3	7E4-O3-5	068-0900-200	≤60	0	5	20	10	-	0.4500	0.2500	0.6500	309.00	0.695	0.366	1.004	-40~50°C	15% ~ 90%RH	3 Years in air	24 months		
	H2S	7E4-H2S-10	052-1900-200	≤90	0	10	30	2	+	1.5000	1.0000	2.0000	43.90	0.749	0.499	0.998	-30~50°C	15% ~ 90%RH	2 Years in air	24 months		
	NO	7E4-NO-10	058-0700-200	≤45	300	10	20	15	+	0.4000	0.2000	0.6000	165.00	0.660	0.330	0.990	-20~50°C	15% ~ 90%RH	3 Years in air	24 months		
		7E4-NH3-10	059-3500-200	≤120	0	10	50	15	+	0.2000	0.1500	0.2500	402.00	0.804	0.603	1.005	-30~50°C	15% ~ 90%RH	2 Years in air	24 months		
	Series	Sensor Type	Product Name	Part Number	T90 (Sec)	Bias (mV)	Range (ppm)	Max Overload (ppm)	Resolution (ppm)	Polarity	NORMAL SENS1 (µA/ppm)	SENS1 MIN (µA/ppm)	SENS1 MAX (µA/ppm)	R_GAIN (Kohm)	NOMINAL FULL SCALE AV (V)	MIN FS ΔV (V)	MAX FS ΔV (V)	Temperature	Humidity Range	Expected Operating Life	Warranty	Notes
	Commerical	CO	CO-500	051-2300-000	≤ 30 s	0	500	1000	0.15	+	0.0500	0.0350	0.0650	/	/	/	/	-20~50°C	15% ~ 90%RH	7 years in air	15 months	
CO-1000			051-2200-000	≤ 30 s	0	1000	2000	0.16	+	0.0400	0.0300	0.0500	/	/	/	/	-20~50°C	15% ~ 90%RH	7 years in air	15 months		
Water Closet		WAC Air Quality	080-0000-000	≤ 90 s	0	20	20	0.1	+	0.1500	0.1150	0.1850	/	/	/	/	-40~50°C	15% ~ 90%RH	2 years in air	12 months		

Series	Sensor Type	Product Name	Part Number	Output Mode	Number of Channel	Storage Temperature Range	Working Temperature Range	Humidity Range	Notes
NDR	CO2	IRM-300	A96-0000-Z01	UART, PWM, I2C	Dual	-40~70°C	0~50°C	0%~95%RH	
		IRM-203	A96-0100-000	UART, PWM	Dual	-20~80°C	-10~50°C	0%~95%RH	
		PCLOA	A96-0300-000	UART, PWM	/	-40~70°C	-10~60°C	0%~95%RH	
		ZM-200D	A96-0400-003	UART, PWM	Dual	-40~85°C	-40~85°C	0%~95%RH	
		4CO2-5000	096-0100-000	UART	Dual	-20~50°C	-40~70°C	0%~95%RH	

Series	Sensor Type	Product Name	Part Number	Output	Bias (V)	Range	Response Time (Sec)	Working Temperature Range	Expected Operating Life	Notes
Gamma	X-Ray	3cc Gamma	001-0100-000	60µs quasi-Gaussian pulse	30	50keV to 3MeV	1	-20~50°C	5 years in air	
		Mini Gamma	001-3000-000	/	2.0-5.5	30keV to 3MeV	/	-20~50°C	/	

Product Name	Part Number	Measurement Range (ppm)	Photon Energy	Resolution (ppb)	Sensitivity (mV/ppm)	Response Time (Seconds)	Temperature	Humidity Range	Expected Operating Life	Warranty
4PID-5	PID-106S-0050	0~5	10.6eV	0.5	> 200	< 5	-20~50°C	0%~99% RH	5 years	12 months
4PID-10	PID-106S-0100	0~10	10.6 eV	1	> 100	< 5				
4PID-50	PID-106S-0500	0~50	10.6 eV	10	> 20	< 5				
4PID-100	PID-106S-1000	0~100	10.6 eV	25	> 10	< 5				
4PID-200	PID-106S-2000	0~200	10.6 eV	50	> 5	< 5				
4PID-2000	PID-106S-2001	0~2000	10.6 eV	500	> 0.5	< 5				
4PID-5000	PID-106S-5001	0~5000	10.6 eV	1000	> 0.2	< 5				
4PID-10000	PID-106S-1002	0~10000	10.6 eV	2000	> 0.1	< 5				

Product Name	Part Number	Measurement Range (ppm)	Photon Energy	Resolution (ppb)	Sensitivity (mV/ppm)	Response Time (Seconds)	Temperature	Humidity Range	Expected Operating Life	Warranty
7PID-5	PID-106K-0050	0~5	10.6 eV	0.5	> 200	< 5	-20~50°C	0%~99% RH	5 years	12 months
7PID-10	PID-106K-0100	0~10	10.6 eV	1	> 100	< 5				
7PID-20	PID-106K-0200	0~20	10.6 eV	1	> 60	< 5				
7PID-100	PID-106K-1000	0~100	10.6 eV	10	> 10	< 5				
7PID-200	PID-106K-2000	0~200	10.6 eV	20	> 5	< 5				
7PID-1000	PID-106K-1001	0~1,000	10.6 eV	100	1	< 5				
7PID-2000	PID-106K-2001	0~2000	10.6eV	200	>0.5	< 5				
7PID-5000	PID-106K-5001	0~5,000	10.6 eV	500	> 0.2	< 5				
7PID-10000	PID-106K-1002	0~10,000	10.6 eV	1,000	> 0.1	< 5				