

Application Guide for Oxygen Sensors

Field 1	Field2	Application	Example of density	Sensor	Control unit
Clean gas	Low density oxygen	High purity gas, N2 PSA	1ppmO2~	TB-II F	C-28C, C-48
		High purity gas, N2 PSA	1ppmO2~	CG-SM	IMD
Electronics	Semiconductor equipment	Diffusion furnace, CVD	1ppmO2~	TB-II F	C-28C, C-48
	Soldering equipment	N2 Reflow furnace, Dip furnace	10ppmO2~	TB-II F	C-28C, C-101
Heat treatment	Atmosphere furnace	Inert gas, H2 + N2	1~10-30atm	TB-II F	C-48
	Vacuum furnace		1~10-30atm	TB-II V	C-48
	Direct-fired furnace	CO + H2	-5~ +5%O2	TB-II G	C-28C
Flue gases	Steel	Dust-coal blow / the air conditioning	0~ 10%O2	TB-II G	C-28C, C-48
		Coke	0~ 5%O2	TB-II G	C-28C, C-48
		Sintering	0~ 5%O2	TB-II G	C-28C, C-48
		Hot blast	0~ 5%O2	TB-II G	C-28C, C-48
		Continuous casting	0~ 2%O2	TB-II G	C-28C, C-48
		Holding, Heating Hammering-out	0~ 5%O2	TB-II G	C-28C, C-48
		CAL, CGL (direct-fired)	-5~ +5%O2	TB-II G	C-28C
	Nonferrous metals	Fusion	0~ 5%O2	TB-II G	C-28C, C-48
		Heating, Annealing	0~ 5%O2	TB-II G	C-28C, C-48
	Pottery	Glass fusion, Holding	0~ 5%O2	TB-II G	C-28C, C-48
		Ceramic baking	-5~ +5%O2	TB-II G	C-28C
		Ceramic baking	0~ 1000mV	TB-II F	C-28C, C-48
	Environment	Trash incinerator	0~ 25%O2	TB-II G	C-28C
		Sludge incinerator	0~ 25%O2	TB-II G	C-28C
		Evaporation fusion	0~ 25%O2	TB-II G	C-28C
		RDF	0~ 50%H2O	TB-II G	C-28C
	Ship	IGS, IGG	0~ 25%O2	TB-II F	C-28C
	Utility	Boiler	0~ 10%O2	TB-II G	C-28C, C-48

Others	Vacuum atmosphere	Glove panel Vacuum chamber	0~ 1000ppm	TB-II V	C-28C
	High temperature moisture	Drying	0~ 50%H2O	TB-II G	C-28C
	Fuel cell	Anode Cathode	1~ 10-30atm	TB-II F	C-48
	High density O2	O2PSA O2enricher Synthetic air for medical	1~ 99%O2	FG Series	IMD

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