

PA System – Gas Composition Example

		Propane-Air Mixed Gas	13A Gas *1	Natural Gas	LPG
Ingredient (%)	CH4 Methane	-	88.5	98.0	-
	C2H6 Ethane	-	4.6	-	-
	C3H8 Propane	57.7	5.4	-	95.0
	C4H10 Butane	3	1.5	-	5.0
	CO2 Carbon Dioxide	-	-	0.5	-
	N2/O2 Nitrogen/Oxygen	39.3	-	1.5	-
Average Molecular Weight		38.6	18.8	16.0	44.8
Gas density (kg/Nm ³)		1.75	0.84	0.72	2.05
Specific Gravity		1.35	0.65	0.56	1.58
Gross Calorific Value (MJ/Nm ³)		62.4	46.1	39.0	103.4
Gross Calorific Value (kcal/Nm ³)		14,900	11,000	9,300	24,700
Burning Rate MCP (cm/s)		41.8	38.8	36.0	41.7
Wobbe Index (WI)		53.7	57.2	52.1	82.3
Wobbe Index (WI)		12,920	13,640	12,430	19,650

*1: General '13A City Gas' has been used in Japan, this is produced by natural gas and LPG.