Specifications

Model		ENDA-5000				
Measurement target		NOx	SO_2	CO *1	CO_2	O_2 *2
Measuring principle		NDIR	NDIR	NDIR	NDIR	MPA
Range	Standard	200 ppm to 5000 ppm	200 ppm to 5000 ppm	200 ppm to 5000 ppm	5 vol% to 25 vol%	10 vol% to 25 vol%
	Option	100 ppm or more	50 ppm or more	100 ppm or more	–	–
Range ratio		Within 10 times	Within 10 times	Within 10 times	Within 5 times	Within 2.5 times
Repeating accuracy (Repeatability)		±0.5% of full-scale value (±1.0% of full-scale value when any optional range is included or for the O_2 measurement)				
Linearity (Indication error)		±1.0% of full-scale value				
Zero drift		±1.0% of full-scale value per week (within 5°C in ambient temperature changes, except for air pressure interference) (±2.0% of full-scale value when any optional range is included or for the O_2 measurement)				
Span drift		±2.0% of full-scale value per week (within 5°C in ambient temperature changes, except for air pressure interference)				
Response speed		T_d+T_{90}= 60 s maximum at system inlet (at Sample flow of 0.6 L/min) (240 s maximum for the SO_2 measurement only)				
Interference		±2.0% of full-scale value (within the composition of standard gas in the standard range)				
Display		Touch panel LCD screen (with back light)				
Installation conditions	Ambient temperature	–5°C to 40°C without direct sunlight and radiant heat *3				
	Ambient humidity	90% maximum				
	Vibration	100 Hz, 0.3 m/s^2 maximum				
	Dust	Less than environmental standard				
Sample conditions	Temperature	250°C maximum				
	Dust	0.1 g/Nm^3 maximum				
	Standard gas composition *4	NO: 500 ppm maximum NO_2: 15 ppm maximum SO_2: 1000 ppm maximum SO_3: 50 ppm maximum CO: 200 ppm maximum CO_2: 15 vol% maximum H_2O: 20 vol% maximum				
Sampling method		Dehumidified sampling at 5°C using the electronic cooler				
Flow rate of sample gas		2.5 L/min to 3.0 L/min				
Sample inlet tube		Teflon tube (8 mm O.D./6 mm I.D.)				
Pressure of sample gas		±4.9 kPa (3-point selection method) (Without sample gas backpressure)		(1) –1.96 kPa to 4.9 kPa (2) ±3.43 kPa (3) –4.9 kPa to 1.96 kPa		
Pressure control method		Normal pressure control by regulator and pump, depressurized sampling Control pressure: –4.9 kPa				
Concentration output		4 mA to 20 mA DC (Insulation output) (0 mA to 16 mA DC/0 V to 1 V DC/1 V to 5 V DC is optional) Max. 12 systems output available				
External contact output		Analyzer alarm, analyzer caution, range display, in-calibration, in-maintenance, in-purge (optional) Contact capacity: 30 V DC, 1 A, 250 V AC, 1 A in resistance load				