Specification ENDA-C9000 series											
ENDA-C9000 Series			C9120	C9170*1 C9170A*2	C9220	C9330*1 C9330A*2	C9430*1 C9430A*2		eduction catalyst method is applied xidation catalyst method is applied		
		NH <sub>3</sub>		09170A		(9330A	C9430A				
		NOx	0		0	0	0				
		02									
Measured components and ranges  Number of range		Component	T	Measuremen	t method		Std. range	1	Option range	Range ratio	_
		NH <sub>3</sub>		Chemilumin	escence		20 -100ppm		10ppm	Max. 10 times	_
							20 -100ppm 5 - 25vol%		10ppm -	Max. 5 times	_
		Max. 3 ranges per component									=
		- ·	•								
Number of measured compo	nents	Max. 3 component	ts includir	ig O <sub>2</sub> analy:	zer						
		Ambient temperature -5 to 40 °C  Ambient temperature 40 to 50 °C									0 °C
Repeatability		±0.5 % of full scale ±1.0 % of full scale									
Drift (+5 °C ambient temperature changes)		Zero drift standard: ±1.0% of full scale per week  Zero option: ±2.0% of full scale per week  Zero option: ±2.0% of full scale per week									
(±5 °C ambient temperature changes)		Span standard: ±2.0% of full scale per week									
Response time		< NOx only or N0x/0 <sub>2</sub> > Td+T $_{90}$ = 70 s max. from analyzer inlet, Td+T $_{90}$ = 40 s max. from calibration inlet									
		< With NH <sub>3</sub> > Td+T <sub>90</sub> = 90 s max. from analyzer inlet, Td+T <sub>90</sub> = 70 s max. from calibration inlet									
Linoarity		±1.0 % of full ecol	lo.								
Linearity Colibration and		±1.0 % of full scale  Automatic collibration (integral: 1 to 00 days)  (The collibration are can be stored in the collibration are can be stored in the collibration.									
Calibration gas		Automatic calibration (interval: 1 to 99 days)  Zero gas: N <sub>2</sub> gas cylinder  (The calibration gas can be stored in the cabinet. However, the storage is not possible if the temperature inside the cabinet will exce									
		Oz reference gas: Nz gas cylinder									
		Span gas: measurement component gas cylinder									
		(For NO gas use NH <sub>3</sub> analyser)									
Materials exposed to gas		SUS-304, SUS-316, PTFE, Polypropylene, Polyethylene, Fluoro-rubber, PVC, PVDF, and glass									
Withstand voltage		AC 2000 V / 1 minute									
Display		Screen switching using touch panel									
Sampling method		Dehumidified sampling at dew point of 2.5°C (2 electronic coolers and depressurized sampling)									
Flow rate and pressure of		Flow rate: < when NOx only or NOx/O <sub>2</sub> > 2.0L/min, <when nh<sub="">3 also included&gt; 1.5L/min for both NOx and NH<sub>3</sub> line</when>									
sample gas		Pressure: ±10 kPa Back pressure: ±0.98 kPa									
Dragging control mothed		•									
Pressure control method		Depressurized sampling method using pressure regulator									
Power voltage		AC 100 V ±15%, 50/60 Hz ±5%									
Analog input and output	Input	Standard max. 4ch, 4 to 20 mA or 0 to 1 V									
	Output	Standard max. 6ch Selection of 1 to 3 lines from combination of one of these; 4 to 20 mA DC, 0 to 16 mA DC, and 1 to 5 V DC and 0 to 1 V DC Insulation of connection board: 1500 V (400 V lightning arrester of 400 V) Maximum load resistance at the current output: $750 \Omega$ Output impedance when voltage output: $50 \Omega$ (0 to 1 V), $50 \Omega$ (1 to 5 V)									
External contact input and output	Input	Standard max. 14 ch (AlC start, switch $O_2$ conversion correction, analog output hold, blowback start, each range L/H) Contact input: 24 V / 10 mA (including the error, 9 to 13 mA) Max. load resistance: 50 $\Omega$									
	Output	Standard max. 10 ch (in-calibration, in-maintenance, analyzer alarm, analyzer caution each range L/H) Contact capacity DC voltage drive Max. voltage: 125 V, Max. current: 1A, Max. switching capacity: 25 VA, AC voltage drive Max. voltage: 250 V, Max. current: 1A, Max. switching capacity: 250 VA, Insulation of connection board: 1500 V (400 V lightning arrester is installed for the contact input circuit)									
Cabinet		Standalone type for outdoor installation Plate thickness: 3.2 mm for steel plates of main unit, door, and top plate									
		Door: Front and back, Connections: right side or left side									
Color		Munsell 5Y 7/1 semi-gloss for both inner and outer surfaces									
Sample inlet tube		PTFE tube ( $\phi$ 8/6)									
External dimensions (mm)		800 (W) $\times$ 800 (D) $\times$ 1800 (H) (excluding protrusions)									
Mass		450 kg (exclusing cylinders, depends on specifications)									
Probe and filter of sampling point		Frange: JIS 10 K, 125 AFF Probe tube length: 1000 mm, Material: SUS-304 Element: SUS-304 + sintered wire mesh 10µm in thickness Electric heating: 800 VA (reduction catalyst method) and 1200 VA (oxidation catalyst method) with drip-proof case Catalyst reaction efficiency: more thank 95% (catalyst reaction method), more than 90% (oxidation catalyst method)									
Installation requirements		Ambient temperature: -5 to 40 °C (without exposure to direct sunlight and radiant heat) -15 to 50 °C specification is an option Ambient humidity: 90 % or less Dust: less than environmental standard Vibration: 0.29 m/s² or less at 100 Hz									
Sample conditions		Temperature: 300 - 400 °C  Dust: 0.1g/Nm³ or less (reduction catalyst method), 0.01g/Nm³ or less (oxidation catalyst method)  N0: 500 ppm or less N02: 15 ppm or less  S02: 200 ppm or less (reduction catalyst method), 15 ppm or less (oxidation catalyst method)  S03: 10 ppm or less (reduction catalyst method), 1/10 of S02 (oxidation catalyst method)  C0: 500 ppm or less C02: 15 vol% or less  H <sub>2</sub> O: 4 to 20 vol% or less 0 <sub>2</sub> : 2 vol% or more  For reduction catalyst method, NH <sub>3</sub> concentration should be less than NOx concentration.  Corrosive gases such as HF, HCl, and CL2 as well as reactive gases should not be included.									