





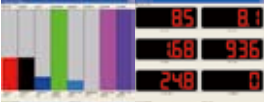




Flue gas analyzer

# HT-1300N



<b>O<sub>2</sub></b>	<b>CO</b> H <sub>2</sub> Compensation	<b>°C</b>
0 ~ 20.9 vol%	0 ~ 10000ppm	0 ~ 650°C

Option

IR Printer HT-1610		Roll paper x 1 AAbattery x 4
Printer paper HT-1636		5 rolls
Ambient air temperature sensor HT-1321		0 ~ 100°C For air temperature
Attach case HT-1315		Made by aluminium Size 350×460×155mm 2.9kg
Measurement Software for PC Online View 2000 HT-2084		RS232 transfer cable USB cable Recommended OS: Windows7/8.1/10
Measurement Software for PC Online View 2000 HT-2094		RS232 transfer cable Recommended OS: Windows 7/8.1/10
Battery charge for abroad HT-1318		AC100 ~ 240V
Sampling probe HT-1001A		L=300mm φ6mm Inc. condensate trap Flue gas temp.; 0 ~ 650°C
Probe handle HT-7201A		Sampling hose length 1800mm Inc. condensate trap
Probe tube HT-7231		L=180mm φ5mm Flue gas temp.; 0 ~ 650°C
Probe tube HT-7235		L=500mm φ6mm Flue gas temp.; 0 ~ 650°C
Probe tube HT-7232		L=750mm φ6mm Flue gas temp.; 0 ~ 650°C
Probe tube HT-7233		L=750mm φ8mm Flue gas temp.; 0 ~ 1100°C

O<sub>2</sub> and CO, 2 measurement items  
Compact design, 360 g

Long seller, loved by professional  
maintenance person

CO with H<sub>2</sub> Compensation  
as standard function

More accurate CO measurement by mean of H<sub>2</sub> compensation  
function.

Integrated data logger function

100 data storage is possible

# Specification

## Measurement items

O <sub>2</sub>	Measurement range	0 ~ 20.9 vol%
	Accuracy	±0.2 vol%
	Resolution	0.1 vol%
	Response time	<10sec.
CO (H <sub>2</sub> Compensation)*1	Measurement range	0 ~ 10000ppm
	Accuracy	0 ~ 200ppm : ±10ppm 200ppm ~ : ±5% reading
	Resolution	1ppm
	Response time	<40sec.
Flue gas temp.	Measurement range	0 ~ 650°C
	Accuracy	0 ~ 1100°C (depend on probe tube) ±1°C or ±1% reading (0 ~ 650°C)*2
	Resolution	±2% reading (650.1 ~ 1100°C) 0.1°C (0 ~ 999.9°C) 1°C (1000 ~ 1100°C)
		0 ~ 100°C
Ambient air temp.*3	Measurement range	0 ~ 100°C
	Accuracy	±1°C
	Resolution	0.1°C

## Calculated items\*4

CO <sub>2</sub>	0 ~ CO <sub>2</sub> Max (calculated from O <sub>2</sub> )
CO calculated from O <sub>2</sub> CO (O <sub>2</sub> =0%)	0 ~ calculated ppm (Fixed O <sub>2</sub> value at 0%)
CO calculated from O <sub>2</sub> CO (O <sub>2</sub> = ? %)	0 ~ calculated ppm (User selectable O <sub>2</sub> %)
Air ratio	1.0 ~ 50.0
Losses	0 ~ 100%
Efficiency	0 ~ 100%
Dew point	0 ~ 100°C

## Fuel

13A, 6C, LPG, kerosine, Light oil, Banker A, Banker C, Pellet
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## Sensor

O <sub>2</sub>	Electrochemical sensor
CO (H <sub>2</sub> Compensation)	Electrochemical sensor
Flue gas temp.	K thermocouple
Ambient air temp.	Pt2000Ω

## Main unit

Temperature	Operation : 0°C ~ +45°C Storage : -20°C ~ +60°C
Display	Dot matrix, 4lines
Dimension	(W×H×D) 80×150×35 mm
Weight	Approx. 360g
Battery	Battery charger (AC100V 50/60Hz DC12V 100mA) Rechargeable NiMH battery (Approx. 8 hours continuous working hours)

## Standard equipment

Integrated	Pump, Interface for PC (RS232) Data logger (possible to store 100 data), Interface for printer
Accessory	Battery, Sampling probe, Condensate trap, Reflection plate, Carrying case, Softcase, Filter set
Description	Art. No. Spec. / remarks
Sampling probe (with flue gas temp. sensor)	HT-1006 L=180mm φ5mm, with condensate trap, flue gas temp. 0 ~ 650°C

## Option

Probes			
Sampling probe	HT-1001A	L=300mm φ6mm / with condensate trap 0 ~ 650°C	
L-Probe	HT-1006L	L=120mm φ5mm / with condensate trap 0 ~ 650°C	
Probe handle			
Probe handle	HT-7201A	with hose, condensate trap	
Probe tube (Probe handle HT-7201A)			
Probe tube (With flue gas temp. sensor)	HT-7231	L=180mm φ5mm 0 ~ 650°C	
	HT-7232	L=750mm φ6mm 0 ~ 650°C	
	HT-7233	L=750mm φ8mm 0 ~ 1100°C	
Temp. probe	Kthermocouple	HT-1251a	φ3×130L, 0~950°C, for air/liquids
		HT-1252a	φ1.5×130L, 0~950°C, for air/liquids
		HT-1253a	φ3×130L, 0~400°C, for air/liquids/food, centric top
		HT-1254a	130L, 0~400°C, for surface /riifs/air/liquid
		HT-1255a	φ4×130L, 0~650°C, for surface /air/liquid
		HT-1256a	0~450°C, magnetic probe for surface
		HT-1257a	0~180°C, Pliers probe for plates, tube
Air temp. probe	Pt2000Ω	HT-1382	0~100°C, for air
Ambient air temp. sensor	Pt2000Ω	HT-1321	0~100°C
Battery charger		HT-1318	AC100~240V
Hard case		HT-1315	Aluminum, dimension : 350×460×155, weight : 2.9kg
Measurement software (with RS232 cable)		HT-2094	Online View 2000 (Recommended OS : Windows 7/8./1/10)
Measurement software (with RS232 cable + USB conversion cable)		HT-2084	Online View 2000 (Recommended OS : Windows 7/8./1/10)
Infrared printer		HT-1610	Roll paper ×1 AA battery × 4
Roll paper for printer		HT-1636	5 rolls
Hood		HT-1376	for hot water supply device (gas/oil), stove

\*1 : Compensate the measured value when measure flue gas include H<sub>2</sub>.

\*2 : The higher value is valid.

\*3 : Ambient air temp. (optional items) sensor is needed.

\*4 : Depend on area flue gas may have difference, so calculated data also may have difference.

\* Accuracy is based on cylinder gas.

Specification might be changed without notice.



**HT-1300N  
Standard set**  

- Main unit
- Sampling probe HT-1006
- Battery charger
- Carrying case
- Soft case
- Reflection plate
- Filter set
- User manual

**Price 198,000yen**  
(tax exclude)



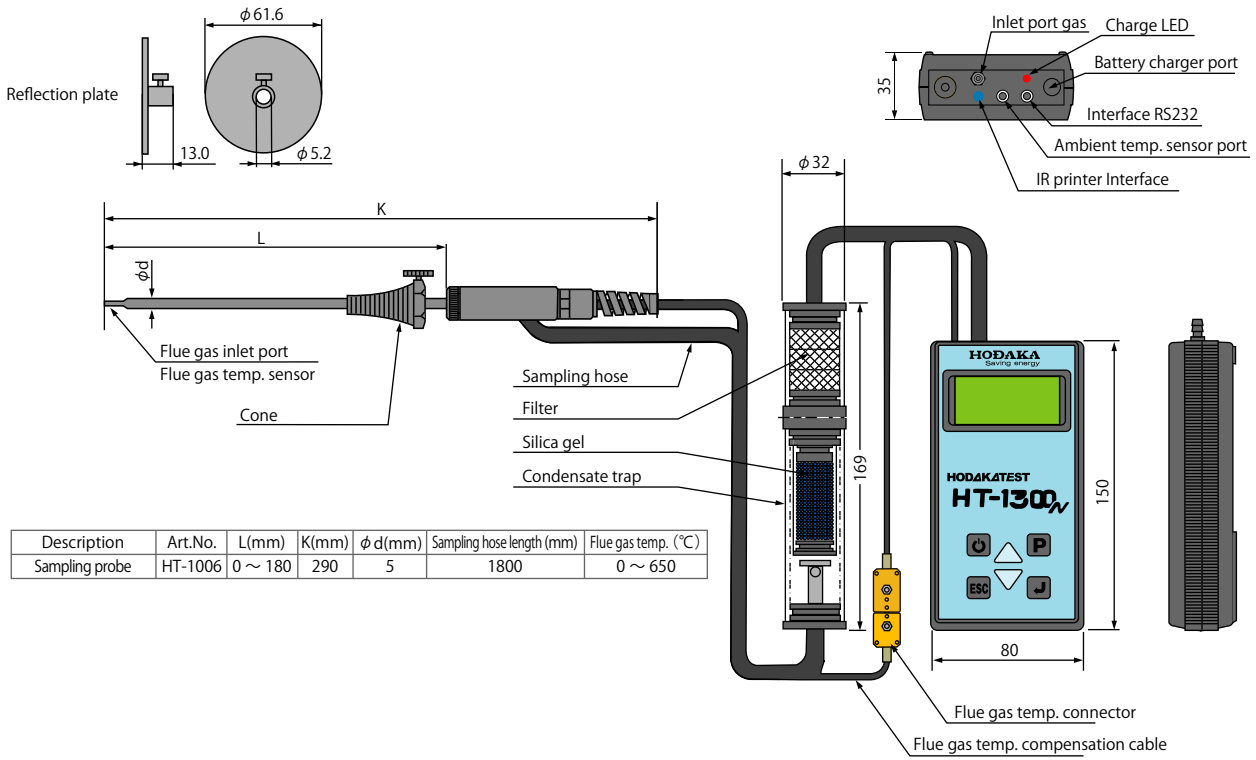
**HT-1300N  
Probe tube  
300mm set**  

- Main unit
- Sampling probe HT-1001A
- Battery charger
- Carrying case
- Soft case
- Filter set
- User manual

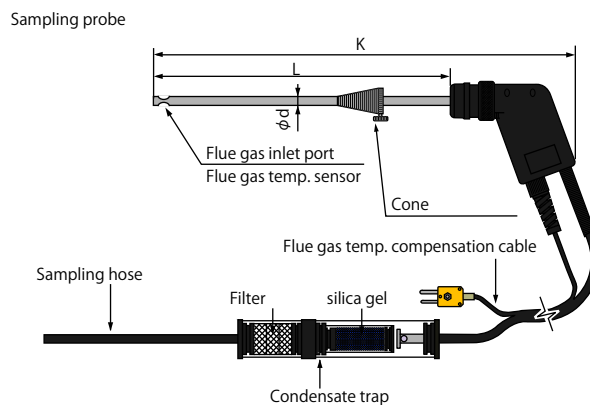
**Price 199,000yen**  
(tax exclude)



Dimension



Option



Description	Art. No.	L(mm)	K(mm)	φ d(mm)	Sampling hose length(mm)	Flue gas temp. (°C)
Sampling probe	HT-1001A	0 ~ 300	410	6	1800	0 ~ 650