

Flue gas analyzer

HT-1200N/1200NT



O₂
0 ~ 20.9 vol%

°C
0 ~ 650°C

Measurement item ;

1200N ; O₂

1200NT ; O₂ · Temperature

Calculated items ; CO₂ and more.

CO₂ is calculated from O₂ concentration based on selectable fuel data.

Easy to measure air ratio





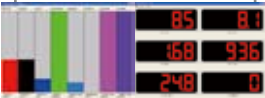




O₂ Alarm

Selectable O₂ alarm threshold value.

Integrated Data logger

Data storage up to 100 data.

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

Specification

Measurement items

O ₂	Measurement range	0 ~ 20.9vol%
	Accuracy	±0.2vol% 0.1vol%
	Resolution	<10 sec.
Temperature G (K thermocouple)	Response time	0 ~ 650°C
	Measurement range	0 ~ 1100°C (depend on probe tube) ±1°C or ±1% reading (0 ~ 650°C) *1 ±2% reading (650.1 ~ 1100°C)
	Accuracy	±1°C
	Resolution	0.1°C (0 ~ 999.9°C) 1°C (1000 ~ 1100°C)
Temperature A (Pt2000Ω) *2	Measurement range	0 ~ 100°C
	Accuracy	±1°C
	Resolution	0.1°C

Calculated items*3

CO ₂	0 ~ CO ₂ Max. (calculation from O ₂ value)
Air ratio	1.0 ~ 50.0
Losses	0 ~ 100% (only with K thermocouple and Pt2000Ω)
Efficiency	0 ~ 100% (only with K thermocouple and Pt2000Ω)

Fuel

13A, 6C, LPG, Kerosine, light oil, heavy A, heavy C, Pellet

Sensor

O ₂	Electrochemical
Temperature G	K thermocouple
Temperature A	Pt2000Ω

Main unit

Temperature	Operating : 0°C ~ +45°C Storage : -20°C ~ +60°C
Display	Dotmatrix 4 lines
Size	(W×H×D) 80×150×35 mm
Weight	Approx.350g
Power	Battery charger (AC100V 50/60Hz DC12V 100mA) Integrated Nicd rechargeable battery (Max.8hours continuous operation)

Standard equipment ※Select one of probes

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/HT-1200N	HT-1229D	L=180mm φ5mm, with condensate trap, w/o temp.measurement
Sampling probe (with flue gas temp. sensor)/HT-1200NT	HT-1006	L=180mm φ5mm, with condensate trap, flue gas temp.0 to 650°C

Option

Probes			
Long probe	HT-1235D	L=690mm φ6mm, with condensate trap, w/o temp.measurement	
Sampling probe	HT-1001A	L=300mm φ6mm, with condensate trap, flue gas temp.0 to 650°C	
L-Probe	HT-1238D	L=120mm φ5mm, with condensate trap, w/o temp.measurement	
L-Probe	HT-1006L	L=120mm φ5mm, with condensate trap, flue gas temp.0 to 650°C	
Probe handle			
Probe handle	HT-7201A	with hose, condensate trap	
Probe tube (for probe handle HT-7201A)			
Probe tube (With flue gas temp. sensor)	HT-7231	L=180mm φ5mm, flue gas temp.0 to 650°C	
	HT-7235	L=500mm φ6mm, flue gas temp.0 to 650°C	
	HT-7232	L=750mm φ6mm, flue gas temp.0 to 650°C	
	HT-7233	L=750mm φ8mm, flue gas temp.0 to 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 /rifts/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 RS232cable)		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

*1 : The higher value is applied as accuracy.

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

*3 : 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-1200N Standard set

- Main unit
- Sampling probe HT-1229D
- Battery charger
- Carrying case
- Softcase
- Refraction plate
- Filter set
- Operating manual

Price **108,000yen**
(tax excluded)



HT-1200NT Standard set

- Main unit
- Sampling probe HT-1006
- Battery charger
- Carrying case
- Softcase
- Reflecting plate
- Filter set
- Operating manual

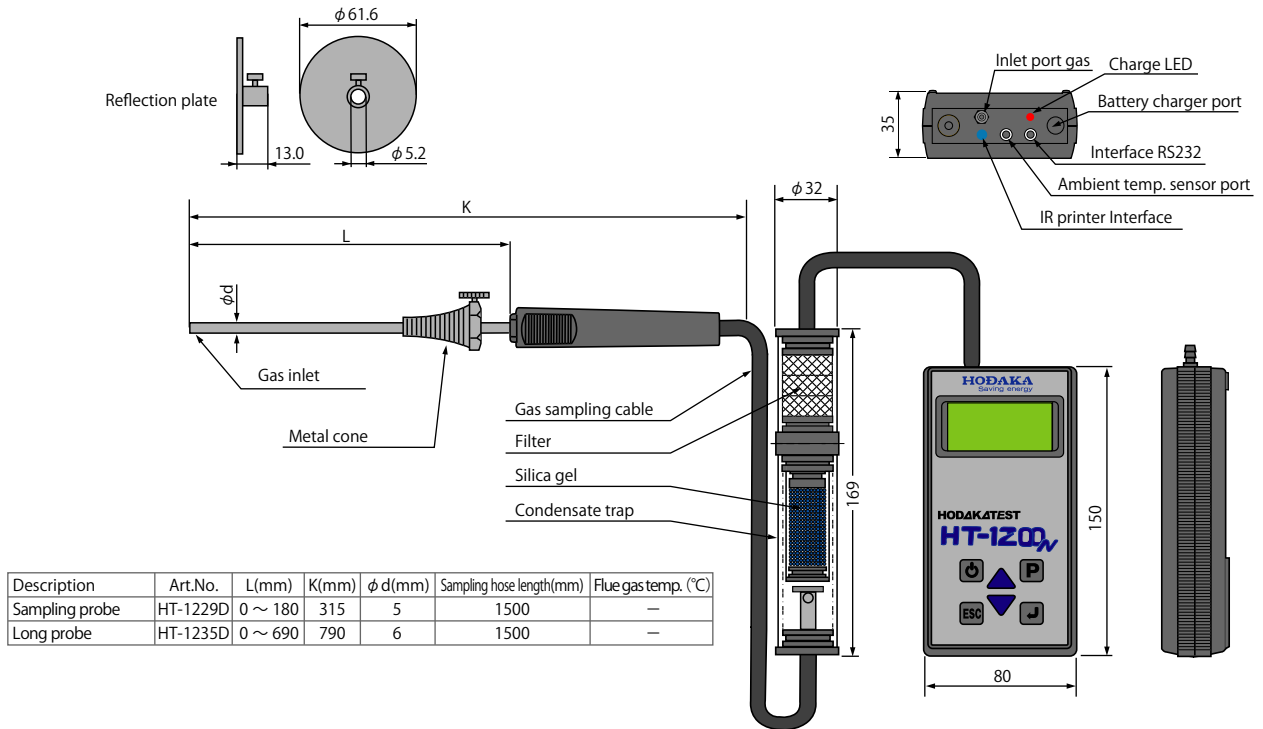
Price **122,000yen**
(tax excluded)



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Dimension

HT-1200N



HT-1200NT

