

Sensor selectable

In addition to O2 (standard equipment) , you can select CO, CO high , NO , NO Low , NO2 and SO2.

Max. 4 sensors.

Max. 4 sensors can be mounted depend on your measurement propose.

Very light • Compact

Weight about 880g • Size $80 \times 210 \times 60$ mm. Handy and easy to carry.

Pressure measurement

Draft pressure, differential pressure, air pressure and gas pressure.

Bright display with LCD backlit

Searchable indication on display, 4 measurement items or 8 measurement items.

Up grate

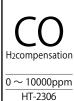
Later on you can up grade your instrument by adding other sensors.

CO purge pump as standard item

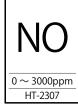
Protect CO sensor from rapid CO concentration rising.

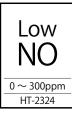
Ordering sample

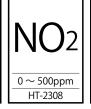








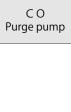


















Low

COPurge pump

Price **368,000** yen (tax exclude)

_ set

 O_2

High

Sampling probe

Price **368,000** yen (tax exclude)

set

 O_2

H₂ compensation

NO

NO₂

Sampling probe

COPurge pump

Price **502,000** yen (tax exclude)

= set

 O_2

NO

NO₂

SO2

Sampling probe

Price **542,000** yen (tax exclude)

HT-2300 Standard set

- Main unit
- Sampling probeBattery charger
- · Carrying strap • Soft case
- Filter set
- User manual





IR Printer HT-1610		Roll paper x 1 AAbattery x 4
Printer paper HT-1636	90	5 rolls
Ambient air temperature sensor HT-2305	NA CONTRACTOR OF THE PARTY OF T	0 ∼ 100°C For air temperature
Attache case HT-2315		size 340×490×125mm 3kg
Measurement Software Online View 2000 HT-2084	85 83 858 833 248	With RS232 cable and USB cable Recommended OS: Windows XP/7
Measurement Software Online View 2000 HT-2094		With RS232 cable Recommended OS: Windows XP/7
Bluetooth module HT-2321	Built-in	For measurement software
Pressure sensor unit HT-2303	Built-in	Pressure, differential pressure, draft pressure
Draft probe HT-1050A		L=180mm φ5mm Hose length 000mm
Probe handle HT-7201 HT-7202	-	Sampling hose length 2700mm
Probe tube HT-7231		L=180mm ϕ 5mm Flue gas temp. 0 \sim 650°C
Probe tube HT-7232		L=750mm ϕ 6mm Flue gas temp. 0 \sim 650°C
Probe tube HT-7233		L=750mm ϕ 8mm Flue gas temp. 0 \sim 1100°C

Specifications

Measurement items

O ₂	Measurement range	0 ~ 20.9vol%		
	Accuracy	±0.2vol%		
	Resolution	0.1vol%		
	Response time	<20sec.		
CO Measurement range		0 ~ 2000ppm (Max. over load 10000ppm)		
(H2 compensation) *1	Accuracy	\pm 10ppm or \pm 5%Reading (0 \sim 2000ppm) *2		
		$\pm 10\%$ Reading (2001 ~ 10000 ppm)		
	Resolution	1ppm		
	Response time	<pre><40sec. (0 ~ 2000ppm) <60sec. (2001 ~ 10000ppm)</pre>		
CO	Measurement range	0.00 ~ 4.00vol% (Max. over load 10.00vol%)		
	Accuracy	± 0.02 vol% or ± 5 %Reading (0.00 \sim 2.00vol%)*2		
	,	$\pm 10\%$ Reading (2.01 ~ 10.00 vol%)		
	Resolution	0.01vol%		
	Response time	<60sec. (0.00 ~ 2.00vol%) <100sec. (2.01 ~ 10.00vol%)		
NO	Measurement range	0 ~ 1000ppm (Max. over load 3000ppm)		
	Accuracy	\pm 5ppm or \pm 5% Reading (0 \sim 1000ppm) *2		
	,	$\pm 10\%$ Reading (1001 \sim 3000ppm)		
	Resolution	1ppm		
	Response time	<pre><40sec. (0 ~ 1000ppm) <60sec. (1001 ~ 3000ppm)</pre>		
Low NO	Measurement range	0 ~ 300ppm		
	Accuracy	±2ppm (0.0 ~ 39.9ppm)		
	,	\pm 5%Reading (40.0 \sim 300ppm)		
	Resolution	0.1ppm (0.0 ~ 99.9ppm) 1ppm (100 ~ 300ppm)		
	Response time	<40sec.		
NO ₂	Measurement range	0 ~ 200ppm (Max. over load 500ppm)		
	Accuracy	±10ppm (0 ~ 200ppm)		
		$\pm 10\%$ Reading (201 \sim 500ppm)		
	Resolution	1ppm (0.1ppm) *3		
	Response time	<60sec. (0 ~ 200ppm) <100sec. (201 ~ 500ppm)		
SO ₂	Measurement range	0 ~ 2000ppm (Max. over load 4000ppm)		
	Accuracy	\pm 10ppm or \pm 5% Reading (0 \sim 2000ppm) *2		
		$\pm 10\%$ Reading (2001 ~ 4000 ppm)		
	Resolution	1ppm		
	Response time	<pre><60sec. (0 ~ 2000ppm) <100sec. (2001 ~ 4000ppm)</pre>		
Pressure	Measurement range	±100 h Pa		
	Accuracy	F.S.±2%		
	Resolution	0.01 h Pa		
Flue gas	Measurement range	$0 \sim 650^{\circ}$ C $0 \sim 1100^{\circ}$ C (depend on probe tube)		
temperature	Accuracy	0 ~ 100°C: ±2°C		
		100℃~: ±2% Reading		
	Resolution	0.1℃(0~999.9℃)、1℃(1000~1100℃)		
Ambient air	Measurement range	0 ~ 100°C		
temperature	Accuracy	±2°C		
•	Resolution	0.1℃		
		1		

Calculated items*4

CO2 (Only CO2 sensor mounted units)	$0 \sim \text{CO}_2\text{Max}$ (calculated from O ₂)		
NOx	0 ∼ calculated value (valid at NO2 sensor non mounted unit)		
O ₂ Calculated items	0 ∼ calculated value (User selectable O2)		
Excess air	1.00 ~ 9.99 0 ~ 99.9%		
Losses			
Efficiency	0~100%		
Dew point	0 ~ 100℃		
mg/m ³			

Fuel

13A、6C、LPG、kerosine、light oil、Banker A、Banker C、Pellet

Sensor

02	Electrochemical sensor
CO (H2 Compensation)	Electrochemical sensor
CO (High CO)	Electrochemical sensor
NO	Electrochemical sensor
NO (Low NO)	Electrochemical sensor
NO ₂	Electrochemical sensor
SO ₂	Electrochemical sensor
Flue gas temp.	Kthermocouple
Ambient air temp.	Kthermocouple
Pressure	Piezoresistive sensor

Main unit

Temperature	Operation : $+0^{\circ}\text{C} \sim +45^{\circ}\text{C}$ Storage : $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$				
Display Dot matrix 8 line ⇔ 4 line Switchable					
Size	(W×H×D) 80×210×60 mm				
Weight	About 680g				
Power	Battery charger (AC100-240V 50/60Hz DC9V 550mA)				
	NiMH battery (Max.8hours continuous operation)				

Standard equipment

Built - in	Pump、Interface for PC(RS232)、					
	CO Purge	CO Purge pump*5、Data logger(Storage up to 100 data)、				
	Interface	Interface for printer				
Accessory	Battery c	Battery charger、Sampling hose、Condensate trap、Shoulder strap、				
	Soft case	Soft case、Filter set				
Description		Art . No.	Spec./remarks			
Sampling probe		HT-1001SS	L=300mm ϕ 6mm Flue gas temp.0 \sim 650°C			
			Hose length2700mm (desorption type)			
		HT-1002SS*6	L=300mm ∮6mm Flue gas temp.0 ~ 650°C			
			Hose length2700mm (desorption type)			

Option

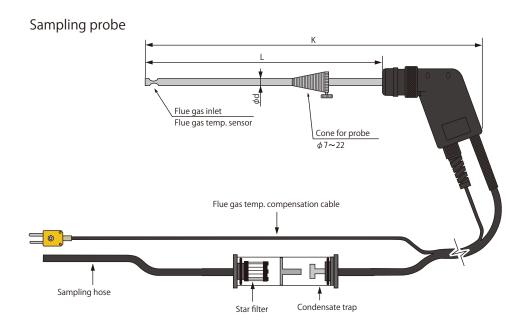
- CPUICH				
		HT-7201SS	Sampling hose length2700mm	
		HT-7202SS*6	Sampling hose length2700mm	
Probe tube		HT-7231	L=180mm ϕ 5mm Flue gas temp. 0 \sim 650°C	
(Flue gas temp. se	nsor)	HT-7235	L=500mm ϕ 6mm Flue gas temp. 0 \sim 650°C	
		HT-7232	L=750mm ϕ 6mm Flue gas temp. 0 \sim 650 $^{\circ}$ C	
		HT-7233	L=750mm ϕ 8mm Flue gas temp. 0 \sim 1100	
Ambient air temp.	sensor	HT-2305	0 ~ 100℃	
Temperature probe	K thermocouple	HT-1251a	φ3×130L、0∼950℃、air/liquids	
		HT-1252a	ϕ 1.5×130L、0 \sim 950°C、air/liquids	
		HT-1253a	ϕ 3×130L、0~400°C、air/liquids/foods、centric top	
		HT-1254a	130L、0∼400°C、surface/lifts/liquids、paddle top	
		HT-1255a	ϕ 4×130L、0~650°C、surface/air/liquids	
		HT-1256a	0~450°C、magnetic probe for surface	
		HT-1257a	0~180°C、pliers probe for plate, tube	
Pressure sensor unit		HT-2303	Pressure、Differential pressure、Draft pressur	
Draft probe	Draft probe		L=180mm ϕ 5mm hose length3000mm	
Attach case		HT-2315	500mmx420mmx125mm, 2.3Kg	
Measurement software for PC		HT-2084	Online View 2000	
(with RS232 cable • USB cable)			(Recommended OS: Windows 7/8.1/10)	
Bluetooth module*7		HT-2333	For measurement software	
IR printer		HT-1610	Roll paper×1 AA battery ×4	
IR printer roll paper		HT-1636	5 rolls	

- $\pm\,1$: Compensate measured value when measure flue gas include H2 components.
- *2: The higher value is valid.
- * 3 : For the device which has low NO sensor, accuracy at measurement range 0.0ppm \sim 99.9ppm is 0.1ppm.
- *4: Depend on area flue gas may have difference, so calculated data also may have difference.
- *5: Not for the device which does not have CO sensor.
- *6 : For high CO/NO₂/SO₂ measurement.
- *7: Measurement software HT-2084 is necessary.
- $*\mbox{Accuracy is based on cylinder gas.}$



Dimension

Ambient temp. sensor port Battery charger port Flue gas temp. sensor port Option Draft pressure measurement port (Positive pressure port) (Option) Draft pressure measurement port (Negative pressure port)(Option)



Description	Art. No.	L(mm)	K(mm)	ϕ d(mm)	Sampling hose (mm)	Flue gas temp. (℃)
Sampling probe	HT-1001SS	$0 \sim 300$	410	6	2700	0 ~ 650
	HT-1002SS	$0 \sim 300$	410	6	2700	0 ~ 650

Flue gas inlet port