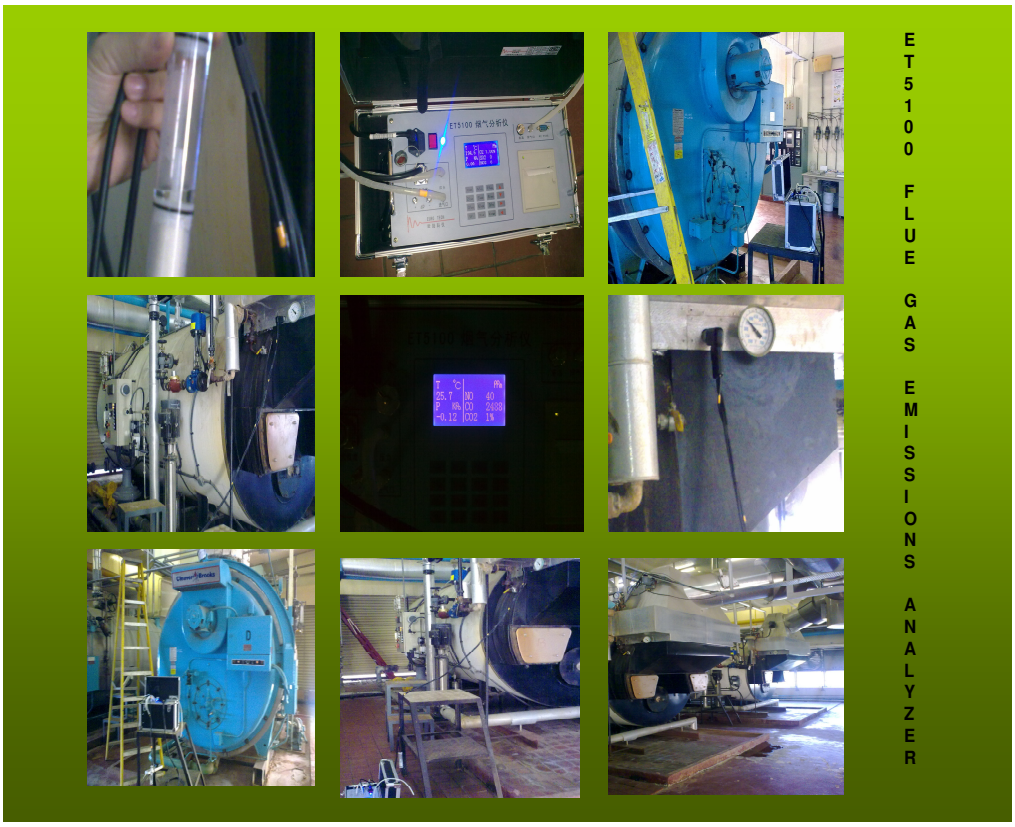

ET5100 Flue Gas Emissions Analyzer

2009 NEW PRODUCT - Ideal for boiler users!

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Product Descriptions

ET5100 Flue Gas Emissions Analyzer

ET 5100 Flue Gas Emissions Analyzer

Equipped with built-in air pump, ET5100 draws in sample gas through its temperature sensor built inside the sampling probe. Users can choose to have the gas analyzed by a variety of electrochemical sensors or non-dispersed infrared detector for determining the gas pressure, temperature, and the concentration of O_2, NO, NO_2, SO_2, CO_2, CO, HC and other content elements in the sample. The instrument is also capable of calculating actual emission rates of the gas analyzed.

Instrument characteristics

- Large storage capacity; able to store a maximum of 500 sets of data; greatly enhances the storage and retrieval of data
- RS232-C port enables uploading and storage of external data in the instrument
- Real time print-out of test results by built-in printer
- Can accommodate as much as 6 sensors
- Modular circuit design enables automatic identification of sensor types
- Users can specify their required measurement standards in the instrument
- Use of real time excess oxygen coefficient (Excess Air Lambda) enables the correct adjustment of pollutant concentrations
- Use of Pitot tube (optional accessory) enables automatic calculation of flue gas flow rate
- Calculation of emission rates based on actual flow rates
- Accuracy of test results is enabled by the use of pre-treatment device (optional accessory)
- Able to function without AC power as a result of built-in batteries
- The use of standard sampling sensor probe (probe length: 0.3 meter and length of flexible hose: 3 meter) which includes a temperature sensor and some basic treatment devices for gases
- Powerful software enables users to input excess oxygen coefficient (Excess Air Lambda) and fuel coefficient

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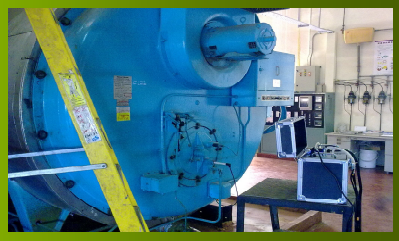
Applications



ET5100 can be used to analyze flue gas emitted from various types of industrial furnaces, incinerators, vehicular emission and boilers used by the power generating industry, metallurgy, environmental industry, industrial safety monitoring and the scientific research sectors; it can also be used to analyze other environmental gaseous emissions, and for verification of FGD and DE-NOx system performance.

Specifications

Parameters	**O_2**	**NO**	**NO_2**	**SO_2**	**CO**	**CO_2**
Measuring Principle	Elec.Chem	Elec.Chem	Elec.Chem	Elec.Chem	Elec.Chem	NDIR
Measuring Range	0-20.9Vol.%	0-1000 ppm	0-100ppm	0-2000ppm	0-2000ppm	0-20Vol.%
Resolution	0.1Vol.%	1ppm	1ppm	1ppm	1ppm	0.01Vol.%
Accuracy	+/- 0.2%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Parameters	**HC**	**Ambient temperature**	**Actual Gas temperature**	**Gas Pressure**	**Gas flow**	
Measuring Principle	NDIR	PT100	K-Type Thermocouple	Semi-conductor	Semi-conductor	
Measuring Range	0-30000ppm	-20℃ /200℃	-20℃ /400℃	-30/+50hPa	-30~+30hPa	
Resolution	2ppm	0.5℃	1℃	0.001hPa	0.001hPa	
Accuracy	+/- 3%	+/-1%	+/-2%	+/-2%	+-2%	

Notes: To measure parameters other than those listed above and over a boarder range with better accuracy, please make enquiries at the Marketing Department of Shanghai Euro-Tech.

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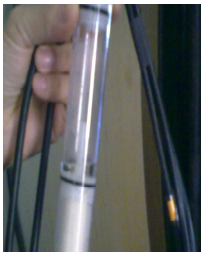
Optional Accessories



- ET3900 Pre-treatment device, including heating sampling probe, associated heat tube and Peltier Cooler (only for use with AC)
- Heating sampling probe and associated heat tube can be tailor-made for customers
- Chemical sensors for CO_2, SO_2, NO, NO_2, and H_2S and non-dispersed infra red sensor (for CO, CO_2, HC analysis)
- Pressure sensors, differential pressure sensors and Pitot tube.

Working environment

- ◆ Ambient Temperature - 10 ℃ ~ 40 ℃
- ◆ Relative humidity - not more than 95% RH
- ◆ Good ventilation and no leakage of gas from samples awaiting to be tested
- ◆ 220V AC power or built-in batteries

Product specifications

- ◆ Communication Port: RS232-C
- ◆ Power consumption: 200W
- ◆ Size: 445 (front width) × 205 (depth) × 320 mm (height)
- ◆ Weight: 10kg (depending on configuration, the actual weight may vary)

ET3900 Flue Gas Pre-treatment Device

This device enhances the accuracy of SO_2 measurement by drying and dewatering the flue gas sample. The use of ET3900 also minimizes sensor damages, reducing maintenance need while prolonging the life span of the instrument. It enhances the commensurability of emission data from different emission sources and is compatible with any flue gas analyzers.

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