

Portable Infrared Flue Gas Analyzer

Gasboard-3000P(3800P)



Introduction:

- ➔ Gasboard 3000P portable infrared flue gas analyzer is the same function of Gasboard 3000, but it is designed for portable application and with optional gas temperature, pressure, flow testing function, The general application is combustion and emission control research or certification of Continuous Emission Monitoring System(CEMS), combustion efficiency monitoring for various industrial furnaces or refuse incinerator and boiler

Features & Specifications

Features:

- Innovative Micro-Flow NDIR technology.
- Measure SO₂,NO,CO,CO₂,O₂ and optional T, P, Flow
- less interference of H₂O for SO₂ and NO measurement. Auto ZERO calibration with fresh air
- Built-in pump and optional Printer
- Calculation of Lambda and combustion efficiency
- LCD 320 x 240 display and RS232 digital output

Specifications of Gases Measured:

Measure Gas	Measure Method	Measure Range	Resolution	Precision	Repetition Error
SO ₂	Micro-flow NDIR	2000PPM	1PPM	≤1%	≤1%
NO	Micro-flow NDIR	2000PPM	1PPM	≤1%	≤1%
CO	Micro-flow NDIR	5000PPM	1PPM	≤1%	≤1%
CO ₂	Micro-flow NDIR	25%	0.01%	≤1%	≤1%
O ₂	Electrochemistry	25%	0.01%	≤3%	≤2%

Note: Measurement range can be customized by the requirement.

Specification of Temperature Measured

Parameter	Measure Method	Measure Range	Resolution	Precision
Flue Gas Temperature	Thermocouple	-10~600	1	±2
Ambient Air Temperature	Thermistor	-10~100	1	±1

Specification of pressure measured

Parameter	Measure Method	Measure Range	Resolution	Precision
Diff. Pressure	Silicon Diff. Pressure Chip	-50hPa~50hPa	1Pa	±2Pa or ±5%rel
Ambient Pressure	Silicon Pressure Chip	70kPa~120kPa	0.01kPa	±0.5kPa or ±2%rel

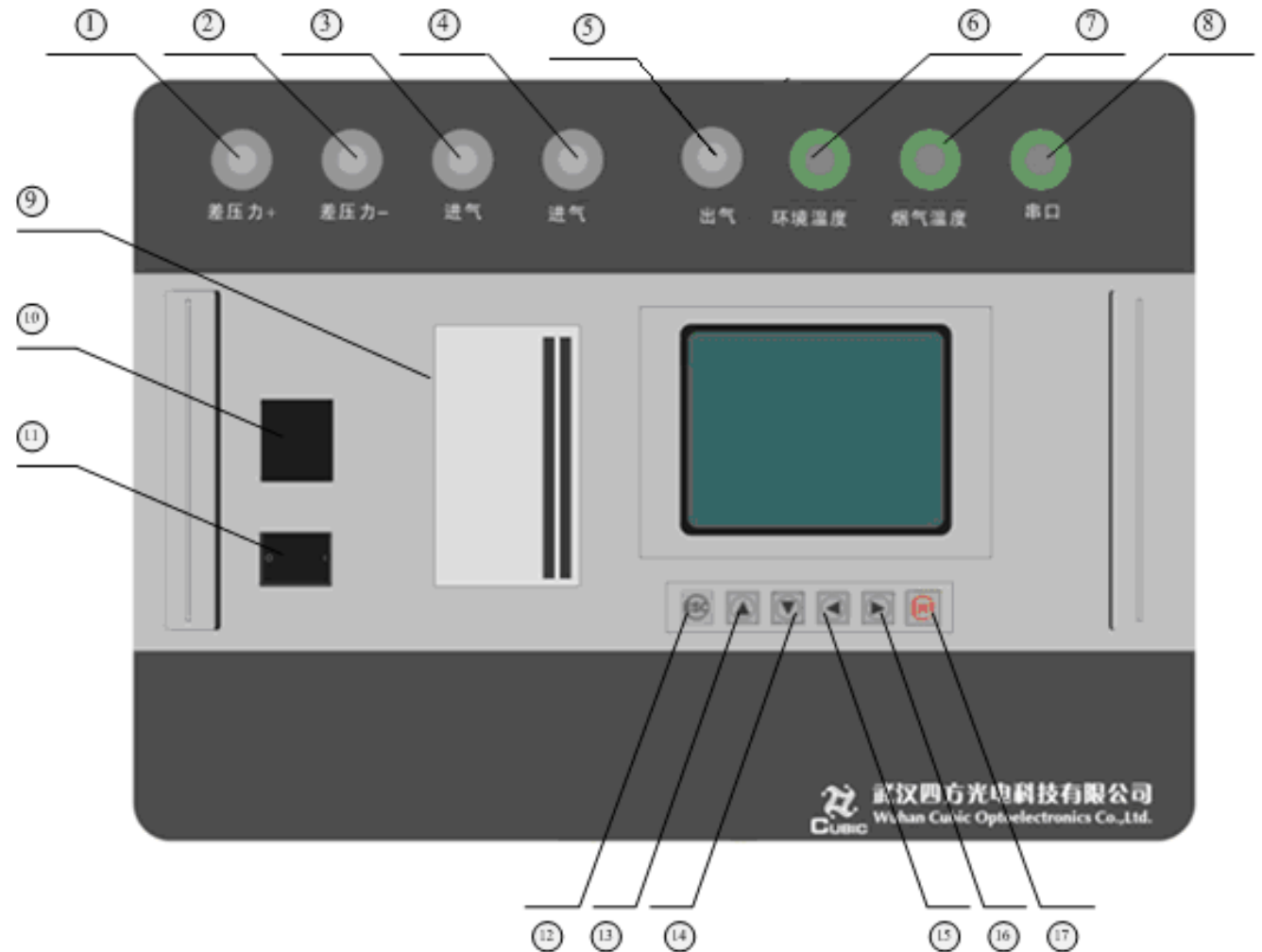
Other parameters

Response Time(TD+T90)	<10 seconds (NDIR)
Warm-up Time	30 minutes
Communication Interface	RS232/RS485
Work Temperature	0 ~ 50
Relative Humidity	5 ~ 85%
Ambient Pressure	86 ~ 108kPa
Power Source Supply	AC 220±10%V 50Hz±1Hz
Dimension	450mm×350mm×180mm (Width×Length×Height)
Weight	9.5kg



Accessory & Applications

- 1---Flue Gas positive pressure measure port
- 2---Flue Gas negative Pressure Measure port
- 3---Inlet
- 4---Auto zero
- 5---Outlet
- 6--- Ambient Temperature Port
- 7--- Flue Gas Temperature Port
- 8---RS-232
- 9---Built-in printer
- 10---Power Supply Socket
- 11---Power on/off(I/O)
- 12---ESC
- 13---Up (pump open)
- 14---Down(Pump close)
- 15---Left (Measure)
- 16---Right(Print)
- 17---ENT



Standard accessory: Battery charger, RS232 cable, sampling pipe



Optional accessory: Heated sampling probe, gas conditioning system, heated line



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